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ANNUAL REPORT
OF
OCEANOGRAPHIC OBSERVATIONS

해 양 조 사 연 보

VOLUME 26
1 9 7 7

국 립 수 산 진 흥 원
Fisheries Research and Development Agency
The Government of the Republic of Korea
Busan, Korea
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국민 교육 헌장

우리는 민족 중흥의 역사적 사명을 띠고 이 땅에 태어났다. 조상의 빛난 얼을 오늘에 되살려, 안으로 자주 독립의 자세를 확립하고, 밖으로 인류 공영에 이바지할 때다. 이에, 우리의 나아갈 바를 밝혀 교육의 지표로 삼는다.

성실한 마음과 튼튼한 몸으로, 학문과 기술을 배우고 익히며, 타고난 저마다의 소질을 계발하고, 우리의 처지를 약진의 발판으로 삼아, 창조의 힘과 개척의 정신을 기른다. 공익과 질서를 앞세우며 능률과 실질을 숭상하고, 경애와 신의에 뿌리박은 상부 상조의 전통을 이어 받아, 명랑하고 따뜻한 협동 정신을 북돋운다. 우리의 창의와 협력을 바탕으로 나라가 발전하며, 나라의 융성이 나의 발전의 근본임을 깨달아, 자유와 권리에 따르는 책임과 의무를 다하며, 스스로 국가 건설에 참여하고 봉사하는 국민 정신을 드높인다.

반공 민주 정신에 투철한 애국 애족이 우리의 삶의 길이며, 자유 세계의 이상을 실현하는 기반이다. 길이 후손에 물려줄 영광된 통일 조국의 앞날을 내다보며, 신념과 긍지를 지닌 근면한 국민으로서, 민족의 슬기를 모아 줄기찬 노력으로, 새 역사를 창조하자.

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범 례

시 각 : 대한민국 표준시이며 동경 135° 의 자오선으로 한 평균태양시

수 온 : 섭씨도수(℃) 이며 시도는 $\frac{1}{100}$ 까지 표시

염 분 : 전기 전도도 염분계로 측정하고 천분율(‰) 로 표시

수 심 : Meter 법으로 표시

수 색 : Forel 수색표준액의 수색번호(1 - 11) 로서 표시

투명도 : 투명도판에 의한 측정치로서 Meter 법으로 표시

파 랑 : 10 계급(0 - 9) 에 의하여 눈으로 관측하여 표시

너 울 : 4 계급(0 - 3) 에 의하여 눈으로 관측한 것이며 0 : 파고 0 m , 1 : 파고 2 m 미만, 2 : 파고 2 ~ 4 m , 3 : 파고 4 m 이상

기 온 : 섭씨도수(℃) 이며 1 / 10 까지 표시

기 압 : Aneroid 기압계에 의한 관측이며 mb 로 표시

풍 향 : 풍향은 16 방위법 (자침방위) 으로 관측하여 표시

풍 력 : 풍력은 Beaufort 풍력계급에 의하여 눈으로 관측하여 표시

운 형 : 운형은 10 종 운형법으로 관측하여 표시

운 량 : 운량은 천공의 10 등법에 의하여 눈으로 관측하여 표시

천 기 : 천기는 쾌청(B) : 운량 0 ~ 2 , 청 (BC) : 운량 3 ~ 7 , 흐림 (C) : 운량 8 ~ 10 , 비(B), 안개 (F) , 눈(S) 등으로 구분하여 표시됨.

EXPLANATIONS

Time	:	Korean Standard Time used the mean solar time referred to the meridian of 135°E.
Water temperature	:	Recorded in hundredths of a degree in centigrade..
Salinity	:	Expressed in parts per thousandth and measured by the inductively coupled Salinometer .
Depth	:	Expressed in meters determined by the Wire length and its angle or an interpolated value obtained.
Color of the Sea	:	Recorded in numbers of Forel Scale (1-11)
Transparency	:	Expressed in meters determined by the Secchi disk.
Wave	:	Expressed in the Scale (0 - 9)

Swell	:	Expressed in the Scale (0-3) The numbers of the Scale and the Wave height as follows. 0:0*m*, 1: less than 2 *m*, 2:2 ~ 4*m* 3:greater than 4*m*.
Air temperature	:	Recorded in tenths of a degree in Centigrade.
Atmospheric Pressure	:	Recorded in millibar(mb) obtained from the direct reading of Aneroid Barometer.
Wind direction	:	Given in 16 Point Scale of the Compass bearing.
Wind velocity	:	Given in Beaufort Scale.
Cloud type	:	Recorded in ten types of the cloud
Cloud amount	:	Expressed in tenths of whole sky covered.
Weather	:	Recorded in present weather: the abbreviations and the cloud cover areas follows. B:0-2, BC: 3-7, C:8-10, R:Rain, F:Fog, S:Snow.

제 1 편

연안정지 해양관측성적

PART 1

COASTAL OCEANOGRAPHIC DATA

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KOREA
JAPAN
① 거진
② 속초
③ 주문진
④ 묵호
⑤ 울릉도
⑥ 죽변
⑦ 후포
⑧ 축산
⑨ 포항
⑩ 장기갑
⑪ 감포
⑫ 울기
⑬ 부산
⑭ 가덕도
⑮ 서이말
⑯
⑰
⑱ 욕지도
⑲ 거문도
⑳ 우도
㉑ 완도
㉒ 자지도
㉓ 산지
㉔ 서귀포
㉕ 마라도
㉖ 죽도
㉗ 소흑산도
㉘ 홍도
㉙ 칠발도
㉚ 목포
㉛ 말도
㉜ 군산
㉝ 어청도
㉞ 격열비도
㉟ 목덕도
㊱ 부도
㊲ 선미도
㊳ 월미도
㊴ 연평도
㊵ 소청도
여수
소리도
42°
41°
40°
39°
38°
37°
36°
35°
34°
33°
124°
125°
126°
127°
128°
129°
130°
131°

연안정지 해양관측점 위치표

Position of the Shore Stations

해역	번호 No.	관측지명 Name of the Station	위치 Position 북위 Lat. (N)	위치 Position 동경 Long. (E)	관측회수 Frequency of Observation	관측개시년월 Date of Inauguration
동해안 East Coast	1	거진 Geojin	38°28'30"	128°26'00"	매일 Daily ※	1967. 4
	2	속초 Sogcho	38°12'32"	128°36'18"	매일 Daily 〃	1967. 4
	3	주문진 Jumunjin	37°53'15"	128°50'00"	매일 Daily 〃	1952. 8
	4	묵호 Mugho	37°32'58"	129°07'15"	매일 Daily 〃	1967. 6
	5	울릉도 Ulneung-Do	37°29'00"	130°54'35"	매일 Daily 〃	1931. 11
	6	죽변 Jugbyeon	37°03'28"	129°26'00"	매일 Daily 〃	1916. 7
	7	후포 Hupo	36°40'42"	129°27'42"	매일 Daily 〃	1968. 9
	8	축산 Chugsan	36°30'29"	129°27'37"	매일 Daily 〃	1968. 4
	9	포항 Pohang	36°02'56"	129°26'10"	매일 Daily 〃	1946. 7
	10	장기갑 Janggigab	36°04'35"	129°34'30"	매일 Daily 〃	1916. 7
	11	감포 Gampo	35°48'20"	129°30'40"	매일 Daily 〃	1967. 5
	12	울기 Ulgi	35°29'28"	29°26'50"	매일 Daily 〃	1939. 1
남해안 South Coast	13	부산 Busan	35°05'08"	129°02'07"	매일 Daily 〃	1925. 3
	14	가덕도 Kadeog-Do	34°59'20"	128°49'50"	매일 Daily 〃	1930. 1
	15	서이말 Seoimal	34°47'00"	128°44'10"	매일 Daily 〃	1967. 4
	16	여수 Yosu	34°44'00"	128°44'00"	매일 Daily 〃	1921. 1
	17	욕지도 Yogji-Do	34°40'50"	128°10'35"	매일 Daily 〃	1969. 1
	18	소리도 Sori-Do	34°24'15"	127°48'15"	매일 Daily 〃	1928. 4
	19	거문도 Geomun-Do	34°00'30"	127°19'15"	매일 Daily 〃	1916. 7
	20	우도 U-Do	33°29'10"	126°58'10"	매일 Daily 〃	1967. 4
	21	완도 Wan-Do	34°19'10"	126°45'00"	매일 Daily 〃	1967. 9
	22	자지도 Jaji-Do	34°05'20"	126°36'15"	매일 Daily 〃	1928. 4
	23	산지 Sanji	33°31'10"	126°33'00"	매일 Daily 〃	1923. 10
	24	서귀포 Seogwipo	33°13'30"	126°34'45"	매일 Daily 〃	1963. 1
	25	마라도 Mara-Do	33°06'45"	126°08'45"	매일 Daily 〃	1923. 10
서해안 West Coast	26	죽도 Jug-Do	34°13'30"	125°51'00"	매일 Daily 〃	1916. 7
	27	흑산도 Heugsan - Do	34°05'30"	125°06'05"	매일 Daily 〃	1925. 10
	28	홍도 Hong - Do	34°42'30"	125°13'00"	매일 Daily 〃	1933. 1
	29	칠발도 Chilbal-Do	34°47'25"	125°47'30"	매일 Daily 〃	1967. 5
	30	목포 Mogpo	34°46'40"	126°23'05"	매일 Daily 〃	1928. 8
	31	말도 Mal-Do	35°51'15"	126°19'10"	매일 Daily 〃	1967. 4
	32	군산 Gunsan	35°59'15"	126°43'00"	매일 Daily 〃	1939. 4
	33	어청도 Eocheong-Do	36°06'40"	125°59'15"	매일 Daily 〃	1916. 7
	34	격열비도 Gyeogyeolbi-Do	36°37'15"	125°33'20"	매일 Daily 〃	1916. 7
	35	목덕도 Mogdeog-Do	36°55'40"	125°45'30"	매일 Daily 〃	1967. 9
	36	부도 Bu-Do	37°08'40"	126°21'00"	매일 Daily 〃	1926. 1
	37	선미도 Seonmi-Do	37°17'10"	126°04'45"	매일 Daily 〃	1967. 7
	38	월미도 Weolmi-Do	37°28'25"	126°36'30"	매일 Daily 〃	1967. 4
	39	연평도 Yeonpyeong-Do	37°38'55"	125°41'10"	매일 Daily 〃	1967. 5
	40	소청도 Socheong-Do	37°45'00"	124°44'00"	매일 Daily 〃	1916. 7

※ 매일 오전 10시 관측 At 10a.m. everywhere

연 안 정 지 월 별 표 면 수 온

Surface Water Temperature of the Shore Stations

월 Month	관측지점 Station / 순 Ten day	① 거 진 Geojin	② 속 초 Sogcho	③ 주문진 Jumunjin	④ 묵 호 Mugho	⑤ 울릉도 Ulneung-Do	⑥ 죽 변 Jug byeon	⑦ 후 포 Hupo	⑧ 추 산 Chugsan
1월 Jan.	상순 1st	6.40	2.52	7.22	6.40	9.67	9.80	7.50	10.23
	중순 2nd	6.92	3.93	7.10	6.36	9.52	9.19	7.05	9.65
	하순 3rd	6.19	3.05	6.30	6.32	9.20	8.90	8.27	10.39
	월평균 Mean	6.50	3.17	6.87	6.36	9.46	9.30	7.61	10.09
2월 Feb.	상순 1st	3.26	1.96	5.54	5.32	8.78	8.74	6.95	8.66
	중순 2nd	3.21	2.25	5.45	5.86	8.54	8.67	7.45	8.60
	하순 3rd	3.34	2.57	5.96	6.57	8.20	8.30	8.13	9.50
	월평균 Mean	3.27	2.26	5.65	5.92	8.51	8.57	7.51	8.92
3월 Mar.	상순 1st	4.40	4.14	5.67	6.58	7.88	9.30	9.30	9.27
	중순 2nd	5.15	6.17	6.45	7.51	7.98	9.45	9.45	9.24
	하순 3rd	5.57	6.44	7.39	7.79	8.40	9.34	9.61	10.00
	월평균 Mean	5.04	5.58	6.50	7.29	8.08	9.36	9.45	9.50
4월 Apr.	상순 1st	6.10	8.04	8.03	9.96	8.50	10.45	11.10	9.50
	중순 2nd	8.12	9.99	9.52	9.85	8.51	11.24	12.60	11.60
	하순 3rd	7.93	10.48	10.13	10.79	8.76	11.71	12.85	12.80
	월평균 Mean	7.38	9.50	9.22	10.20	8.59	11.13	12.18	11.30
5월 May	상순 1st	9.12	11.31	11.54	12.06	10.60	13.38	14.30	13.00
	중순 2nd	10.99	13.96	12.40	13.37	12.02	11.91	13.90	13.08
	하순 3rd	11.61	14.21	13.98	13.99	14.27	13.20	15.45	15.07
	월평균 Mean	10.57	13.16	12.64	13.14	11.48	12.83	14.55	13.71
6월 Jun.	상순 1st	14.40	16.61	14.85	16.23	15.98	15.48	18.70	16.51
	중순 2nd	14.95	16.73	16.21	16.98	17.84	16.66	18.00	17.06
	하순 3rd	15.03	17.43	17.71	16.58	18.10	17.75	18.98	18.89
	월평균 Mean	14.79	19.19	16.26	16.60	17.31	16.63	18.56	17.49
7월 Jul.	상순 1st	17.03	19.32	18.06	19.03	19.14	19.01	21.10	20.50
	중순 2nd	19.27	21.47	19.11	21.02	21.28	17.55	22.10	21.14
	하순 3rd	20.44	24.54	23.18	21.21	24.03	19.88	21.23	17.49
	월평균 Mean	18.91	21.78	20.12	19.28	21.48	18.81	21.48	19.71
8월 Aug.	상순 1st	20.00	24.38	22.92	19.88	25.34	19.37	20.65	-
	중순 2nd	20.75	22.06	22.63	21.82	25.38	20.79	21.05	-
	하순 3rd	20.51	22.42	23.21	23.30	25.20	23.09	23.23	-
	월평균 Mean	20.42	22.95	22.92	21.67	25.31	21.08	21.64	-
9월 Sep.	상순 1st	18.99	22.75	23.95	23.45	24.87	23.23	23.20	-
	중순 2nd	20.46	20.44	22.64	21.64	24.07	22.25	22.35	-
	하순 3rd	20.88	19.17	21.29	20.85	23.37	21.22	-	-
	월평균 Mean	20.11	20.79	22.63	21.98	24.10	22.23	22.78	-
10월 Oct.	상순 1st	20.49	19.93	20.42	20.69	22.58	20.15	21.10	-
	중순 2nd	18.47	16.63	17.50	17.27	21.05	18.23	17.70	-
	하순 3rd	17.20	14.82	16.01	16.15	20.87	16.67	18.00	-
	월평균 Mean	18.72	17.13	17.98	18.04	21.50	18.80	18.93	-
11월 Nov.	상순 1st	15.07	10.94	14.00	14.61	18.75	15.20	17.75	-
	중순 2nd	13.53	9.79	12.90	13.42	17.62	15.14	16.90	-
	하순 3rd	12.79	7.53	12.31	12.98	15.84	14.21	13.40	-
	월평균 Mean	13.80	9.42	13.07	13.67	17.40	14.85	16.02	-
12월 Dec.	상순 1st	8.66	7.00	11.08	11.53	14.93	12.36	12.52	-
	중순 2nd	5.53	6.70	11.83	11.62	14.17	12.87	12.95	-
	하순 3rd	-	4.05	10.79	10.40	12.92	13.08	11.67	-
	월평균 Mean	7.10	5.95	11.23	11.18	14.01	12.77	12.38	-
년 Year	년 평 균	12.05	12.57	13.76	13.78	15.60	14.70	15.26	12.96

⑨ 포 항 Pohang	⑩ 장기갑 Janggigab	⑪ 감 포 Gampo	⑫ 울 기 Ulgi	⑬ 부 산 Busan	⑭ 가덕도 Kadeog-Do	⑮ 서이말 Seoimal	⑯ 여 수 Yosu	⑰ 욕지도 Yogji-Do
7.40	8.94	10.08	11.59	8.70	8.73	11.10	5.28	2.80
5.80	8.73	10.04	11.00	9.84	7.99	11.02	4.12	8.30
6.30	8.50	11.03	11.90	9.34	7.50	10.42	3.66	6.91
6.50	8.72	10.38	11.50	9.29	8.07	10.85	4.35	6.00
6.02	7.71	9.60	10.74	8.57	7.54	9.93	3.16	-
6.45	7.81	9.80	10.53	8.74	7.75	9.72	3.44	4.55
6.60	6.42	7.90	11.11	9.53	8.64	10.16	4.19	8.69
6.36	7.31	9.10	10.79	8.95	7.98	9.94	3.59	6.62
8.54	9.18	10.20	11.41	9.86	8.67	10.19	5.37	8.93
9.05	9.37	10.60	11.24	10.45	9.33	10.41	7.07	9.55
10.00	9.12	10.80	12.00	11.91	9.90	10.94	8.90	10.26
9.20	9.22	10.50	11.55	10.74	9.30	10.51	7.11	9.58
11.28	11.43	12.15	12.15	11.68	11.24	11.64	10.67	11.38
13.25	13.02	12.41	12.89	12.87	12.71	12.10	12.07	13.17
13.51	13.83	13.09	13.90	13.51	13.28	12.82	13.30	13.36
12.68	12.76	12.55	12.98	12.69	12.41	12.19	12.01	12.64
14.21	15.44	13.52	14.15	14.06	13.98	13.20	14.12	13.72
14.97	15.67	13.37	14.87	15.61	16.0-	14.20	16.29	14.38
17.38	16.24	14.64	17.66	15.95	16.12	15.12	17.60	16.31
15.52	15.78	13.84	15.56	15.21	15.38	14.17	16.00	14.80
18.76	19.16	15.87	16.15	17.16	17.75	15.40	19.04	16.30
17.71	18.32	16.86	17.08	17.61	18.70	17.33	19.70	17.15
19.88	19.14	18.99	19.22	19.08	19.13	18.32	19.81	18.85
18.78	18.87	17.24	17.48	17.95	18.53	17.02	19.52	17.43
21.51	21.12	19.65	18.70	19.03	20.01	17.99	20.02	20.80
20.04	21.63	18.42	18.20	20.16	20.76	18.12	22.89	22.70
20.06	24.90	16.64	18.73	23.34	21.70	20.10	24.38	23.68
20.54	22.55	18.24	18.54	20.84	20.82	18.74	22.43	22.39
20.11	19.07	15.76	18.32	22.36	21.13	18.01	23.81	21.30
21.74	20.01	22.90	22.46	24.18	22.73	23.62	22.51	20.95
23.65	21.82	24.25	24.06	24.29	23.46	24.03	23.38	23.91
21.83	19.72	20.97	21.61	23.61	22.44	21.89	23.23	20.05
24.91	23.23	22.85	22.41	24.43	23.39	24.11	25.15	23.60
22.79	21.29	23.46	22.78	23.99	22.93	23.43	24.70	21.80
22.53	20.82	22.54	21.49	22.56	21.35	21.70	23.40	23.95
23.41	21.78	22.95	22.23	23.66	22.56	23.08	24.42	23.12
21.84	21.02	21.59	19.18	22.42	20.90	21.85	23.23	18.47
19.42	18.64	20.62	18.14	20.47	19.25	19.47	21.27	21.40
18.06	18.71	19.19	18.18	19.70	18.52	18.71	20.62	19.50
19.97	19.46	20.47	18.50	20.86	19.56	20.01	21.70	19.79
16.46	15.62	18.27	16.97	17.94	17.75	17.77	19.21	17.95
15.79	14.61	17.14	16.04	16.70	15.83	17.05	16.54	16.95
13.63	9.86	14.55	14.34	14.77	14.04	15.31	14.03	14.50
15.29	13.36	16.65	15.78	16.57	15.74	16.71	16.59	16.47
11.59	10.31	13.92	12.52	14.36	13.54	15.28	11.62	14.90
11.58	10.50	14.63	12.95	14.44	13.20	14.71	11.26	15.25
10.72	8.92	14.97	11.67	12.56	12.06	13.94	9.53	16.00
11.30	9.91	14.51	12.38	13.79	12.93	14.63	10.76	15.38
15.12	*14.95*	*15.62*	*15.74*	*16.18*	*15.48*	*15.81*	*15.14*	*15.21*

월 Month	관측지점 Station / 순 Ten day	⑱ 소리도 Sori-Do	⑲ 거문도 Geomun-Do	⑳ 우 도 U-Do	㉑ 완 도 Wan-Do	㉒ 자지도 Jaji-Do	㉓ 산 지 Sanji	㉔ 서귀포 Seogwipo	㉕ 마라도 Mara-Do
1 월 Jan.	상 순 1st	7.83	12.20	15.26	8.55	8.78	14.20	14.52	15.05
	중 순 2nd	7.30	12.10	14.83	8.99	8.32	15.10	14.06	14.14
	하 순 3rd	7.79	12.10	14.12	8.35	8.50	13.60	14.10	13.80
	월 평 균 Mean	7.64	12.13	14.74	8.63	8.53	14.30	14.23	14.33
2 월 Feb.	상 순 1st	6.81	8.50	13.50	6.83	7.84	12.36	13.45	13.43
	중 순 2nd	7.76	7.60	12.80	6.03	8.01	12.53	12.68	13.10
	하 순 3rd	7.88	9.80	12.70	6.74	8.32	13.25	12.75	13.29
	월 평 균 Mean	7.12	8.63	13.00	6.53	8.06	12.71	12.96	13.27
3 월 Mar.	상 순 1st	7.88	10.73	12.90	7.58	8.35	12.80	13.31	14.04
	중 순 2nd	9.48	11.26	12.90	8.95	8.86	13.10	14.39	14.40
	하 순 3rd	10.08	11.33	13.20	10.39	9.40	13.40	13.94	13.79
	월 평 균 Mean	9.15	11.11	13.00	8.97	8.87	13.10	13.88	14.08
4 월 Apr.	상 순 1st	11.25	12.28	13.70	11.36	10.66	14.30	14.24	14.07
	중 순 2nd	11.85	13.17	14.20	13.04	11.62	15.60	14.53	14.96
	하 순 3rd	12.95	13.48	14.50	14.52	12.33	15.80	14.92	15.03
	월 평 균 Mean	12.01	13.00	14.13	12.97	11.53	15.23	14.62	14.61
5 월 May	상 순 1st	13.73	13.32	14.40	15.94	13.00	14.77	15.80	14.69
	중 순 2nd	14.18	13.69	15.70	16.99	13.99	15.14	16.10	14.77
	하 순 3rd	15.22	14.02	14.05	17.40	14.62	15.35	17.28	16.21
	월 평 균 Mean	14.37	13.68	14.72	16.78	13.87	15.09	16.39	15.22
6 월 Jun.	상 순 1st	16.85	14.39	16.47	-	15.06	16.15	19.00	17.25
	중 순 2nd	17.51	16.50	16.43	-	15.48	18.39	18.76	17.85
	하 순 3rd	18.07	19.19	18.30	-	16.79	20.36	19.50	19.62
	월 평 균 Mean	17.47	16.69	17.07	-	15.77	18.30	18.59	18.24
7 월 Jul.	상 순 1st	20.72	20.22	19.89	-	17.85	20.60	20.18	22.54
	중 순 2nd	21.17	20.90	21.36	-	17.99	24.40	22.30	24.29
	하 순 3rd	21.54	24.21	22.85	-	17.14	27.10	24.56	25.82
	월 평 균 Mean	21.14	21.20	21.37	-	17.66	24.03	22.35	24.22
8 월 Aug.	상 순 1st	22.22	22.78	25.53	-	17.32	28.44	24.41	27.28
	중 순 2nd	21.15	22.83	24.59	-	18.35	25.99	26.24	25.60
	하 순 3rd	23.40	23.66	23.61	-	22.45	22.85	24.25	24.44
	월 평 균 Mean	22.26	23.09	24.58	-	19.37	25.76	24.97	25.77
9 월 Sep.	상 순 1st	24.21	24.54	23.29	-	23.02	23.66	24.96	25.79
	중 순 2nd	24.00	23.11	22.17	-	23.40	22.10	24.05	24.26
	하 순 3rd	22.60	21.97	20.86	-	21.38	21.20	23.11	23.40
	월 평 균 Mean	23.60	23.21	22.11	-	22.60	22.32	24.04	24.48
10 월 Oct.	상 순 1st	21.91	20.99	22.40	-	18.24	22.10	22.91	22.69
	중 순 2nd	21.31	19.11	20.30	-	17.12	20.80	21.23	20.31
	하 순 3rd	19.53	17.46	19.88	-	15.59	21.10	20.48	21.72
	월 평 균 Mean	20.92	19.19	20.86	-	16.98	21.33	21.54	21.57
11 월 Nov.	상 순 1st	17.96	17.29	19.78	-	15.62	19.31	20.48	22.14
	중 순 2nd	16.55	16.88	18.42	-	15.57	18.29	19.66	20.70
	하 순 3rd	15.13	14.21	18.15	-	15.01	18.26	18.37	19.12
	월 평 균 Mean	16.55	16.13	18.78	-	15.40	18.62	19.50	20.63
12 월 Dec.	상 순 1st	9.90	14.50	18.72	-	13.28	17.51	18.13	18.61
	중 순 2nd	11.03	14.84	18.10	-	12.82	17.59	18.22	18.16
	하 순 3rd	12.38	12.96	17.53	-	11.08	16.65	17.09	16.19
	월 평 균 Mean	9.24	14.10	18.12	-	12.39	17.25	17.81	17.65
년 Year	년 평 균	15.12	16.01	17.71	10.78	14.25	18.17	18.41	18.67

㉖ 죽 도 Jug-Do	㉗ 흑산도 Heugsan-Do	㉘ 홍 도 Hong-Do	㉙ 칠발도 Chilbal-Do	㉚ 목 포 Mogpo	㉛ 말 도 Mal-Do	㉜ 군 산 Gunsan	㉝ 어청도 Eocheong-Do
8.89	11.12	8.97	7.58	4.71	4.36	0.29	7.43
8.81	9.93	8.56	7.13	4.54	2.78	0.41	5.51
8.21	9.49	7.64	7.51	3.98	2.74	0.56	4.98
8.64	10.21	8.39	7.41	4.41	3.29	0.42	5.97
9.54	9.10	5.80	5.87	2.62	1.96	-0.34	4.19
8.51	8.57	5.10	5.02	2.92	1.47	0.07	3.14
9.75	8.58	5.40	5.41	4.15	2.18	1.88	2.58
9.27	8.75	5.43	6.00	3.23	1.87	0.54	3.30
8.10	8.71	5.61	4.53	5.02	2.64	3.72	3.12
8.54	8.97	5.70	5.87	6.66	3.51	6.25	3.24
10.18	8.80	6.20	6.64	8.05	4.63	7.85	4.16
8.94	8.83	5.84	5.68	6.58	3.60	5.94	3.51
9.75	9.18	7.85	7.57	10.22	6.31	10.71	4.62
10.10	9.94	8.10	8.79	11.83	7.48	13.97	4.97
9.80	10.79	9.52	12.31	13.59	10.28	15.07	5.83
9.60	9.97	8.50	9.42	11.88	8.02	13.25	5.14
11.20	11.22	10.80	13.68	14.45	11.50	15.95	7.68
12.00	12.44	11.33	14.91	16.39	12.61	18.77	8.51
11.70	13.12	13.00	14.71	17.15	12.44	19.46	10.53
11.63	12.26	11.71	14.43	16.00	12.18	18.06	8.91
13.58	14.09	12.94	14.84	18.73	13.15	21.18	11.74
14.33	15.29	13.35	15.57	19.90	15.28	23.55	12.30
14.45	17.51	17.60	16.11	20.44	16.43	24.82	16.65
14.12	15.63	14.63	15.51	19.09	14.95	23.18	13.56
16.20	18.67	18.95	17.82	21.35	18.82	26.01	19.89
16.53	22.24	18.05	18.23	23.15	20.55	25.76	23.65
19.36	22.86	19.82	18.48	24.12	22.38	27.95	23.74
17.76	21.26	18.94	18.18	22.87	20.58	26.57	22.43
17.56	22.95	22.80	19.36	24.98	23.62	28.08	23.88
16.27	25.21	21.51	19.06	24.80	23.46	26.43	22.78
20.90	24.45	23.59	20.53	23.19	21.99	25.40	20.35
18.24	24.20	22.63	19.65	24.32	23.02	26.64	22.34
22.62	25.56	23.54	22.45	24.01	23.37	26.12	21.80
21.63	23.42	22.42	21.92	24.50	23.57	25.24	21.28
19.83	22.03	21.91	21.01	22.40	22.42	22.66	19.92
21.36	23.67	22.62	21.79	23.64	23.12	24.67	21.00
17.27	20.87	21.49	20.27	22.56	21.59	22.48	19.95
16.44	17.93	19.60	19.18	19.51	20.48	19.18	17.92
15.73	18.40	18.92	17.65	18.76	19.22	18.38	17.27
16.48	19.07	20.00	19.03	20.28	20.43	20.01	18.38
14.39	16.79	16.63	17.02	17.30	18.00	16.75	16.47
12.21	15.61	14.44	15.58	14.79	15.11	13.01	14.21
9.89	14.80	13.88	13.94	12.25	12.05	9.62	13.41
12.16	15.73	14.98	15.51	14.78	15.05	13.13	14.70
11.94	13.10	12.64	12.07	10.66	10.60	6.81	12.42
12.81	12.86	11.98	11.77	10.36	10.43	7.18	11.91
12.25	13.11	10.90	10.58	8.43	8.41	4.85	10.82
12.33	13.02	11.84	11.47	9.82	9.81	6.28	11.72
13.38	*15.22*	*13.79*	*13.67*	*14.74*	*12.98*	*14.89*	*12.58*

월 Month	관측지점 Station / 순 Ten day	㉞ 격열비도 Gyeogye-olbi-Do	㉟ 목덕도 Mogdeog-Do	㊱ 부 도 Bu-Do	㊲ 선미도 Seonmi-Do	㊳ 월미도 Weolmi-Do	㊴ 연평도 Yeonpyeong-Do	㊵ 소청도 Socheong-Do
1 월 Jan.	상순 1st	5.81	5.54	3.75	3.37	2.62	1.38	5.09
	중순 2nd	4.53	4.63	2.61	2.78	2.92	1.20	4.27
	하순 3rd	4.36	3.10	1.36	2.03	2.57	1.15	3.40
	월평균 Mean	4.70	4.42	2.57	2.73	2.70	1.24	4.25
2 월 Feb.	상순 1st	2.61	1.63	0.47	0.77	-0.67	1.28	2.56
	중순 2nd	2.36	1.13	0.28	0.21	-0.08	-0.22	2.56
	하순 3rd	1.83	0.84	0.24	0.45	0.70	0.69	2.86
	월평균 Mean	2.27	1.20	0.33	0.48	-0.02	0.58	2.66
3 월 Mar.	상순 1st	2.08	1.25	0.50	1.07	0.62	1.51	2.80
	중순 2nd	3.13	1.85	1.39	2.01	2.68	3.55	3.20
	하순 3rd	4.41	2.37	2.63	2.93	3.50	5.05	4.30
	월평균 Mean	3.21	1.82	1.51	2.00	2.27	3.37	3.43
4 월 Apr.	상순 1st	5.33	2.87	4.27	3.57	4.58	5.97	4.95
	중순 2nd	6.08	3.42	5.37	5.11	8.36	7.80	5.29
	하순 3rd	6.69	4.30	6.87	6.81	10.20	10.63	6.03
	월평균 Mean	6.03	3.53	5.50	5.16	7.71	8.13	5.42
5 월 May	상순 1st	7.08	6.54	8.61	8.70	11.39	12.38	6.67
	중순 2nd	9.50	9.10	10.51	10.61	14.14	14.48	8.39
	하순 3rd	12.45	9.95	11.21	11.60	15.89	15.38	10.48
	월평균 Mean	9.68	8.53	10.11	10.69	13.81	14.08	8.51
6 월 Jun.	상순 1st	14.30	11.66	12.32	12.67	17.40	16.92	10.91
	중순 2nd	15.00	12.61	13.56	14.27	19.30	18.70	11.81
	하순 3rd	15.80	14.00	16.31	15.88	20.60	20.42	13.36
	월평균 Mean	15.03	12.76	14.06	14.27	19.10	18.68	12.03
7 월 Jul.	상순 1st	19.70	16.23	17.94	16.86	23.31	20.37	14.91
	중순 2nd	24.60	18.40	19.01	18.41	23.22	21.98	17.10
	하순 3rd	26.72	19.61	20.06	19.77	24.92	23.74	19.13
	월평균 Mean	23.68	18.08	19.00	18.35	23.81	22.03	17.05
8 월 Aug.	상순 1st	26.50	20.31	21.30	21.15	25.33	24.93	19.03
	중순 2nd	25.75	20.92	21.63	22.73	24.53	24.33	21.37
	하순 3rd	25.14	20.68	22.25	23.04	23.85	23.69	20.23
	월평균 Mean	25.80	20.64	21.73	22.31	24.57	24.32	20.21
9 월 Sep.	상순 1st	24.40	20.72	22.33	22.98	24.64	23.51	19.85
	중순 2nd	22.85	20.98	21.60	22.94	21.89	21.61	17.77
	하순 3rd	20.80	20.78	20.76	22.57	20.90	21.07	16.70
	월평균 Mean	22.68	20.83	21.56	22.83	24.78	22.06	18.11
10 월 Oct.	상순 1st	19.45	21.06	20.34	21.89	20.54	20.22	16.26
	중순 2nd	19.20	19.85	19.87	20.79	18.25	17.65	15.09
	하순 3rd	18.31	19.28	19.32	20.05	18.56	17.30	15.06
	월평균 Mean	18.99	20.06	19.84	20.91	19.12	18.39	15.57
11 월 Nov.	상순 1st	15.75	18.76	18.07	18.59	16.35	15.58	14.70
	중순 2nd	16.20	16.50	16.31	16.07	13.29	13.65	12.48
	하순 3rd	14.90	14.21	14.53	13.55	10.03	10.59	10.94
	월평균 Mean	15.62	16.49	16.30	16.07	13.22	13.27	12.71
12 월 Dec.	상순 1st	13.60	12.33	12.28	12.09	8.50	8.02	9.84
	중순 2nd	12.57	10.42	11.13	11.24	8.44	7.46	9.40
	하순 3rd	10.27	8.79	9.40	8.62	6.71	5.87	8.65
	월평균 Mean	12.15	10.51	10.94	10.32	7.89	6.88	9.29
년 Year	년 평 균	*13.34*	*11.57*	*11.95*	*12.18*	*13.25*	*12.75*	*10.77*

제 2 편

정 선 해 양 관 측 성 적

(수온,염분 및 기상 관측 자료)

PART 2

SECTIONAL OCEANOGRAPHIC DATA

(Temperature, Salinity, and Meterological Data)

1977

차 례

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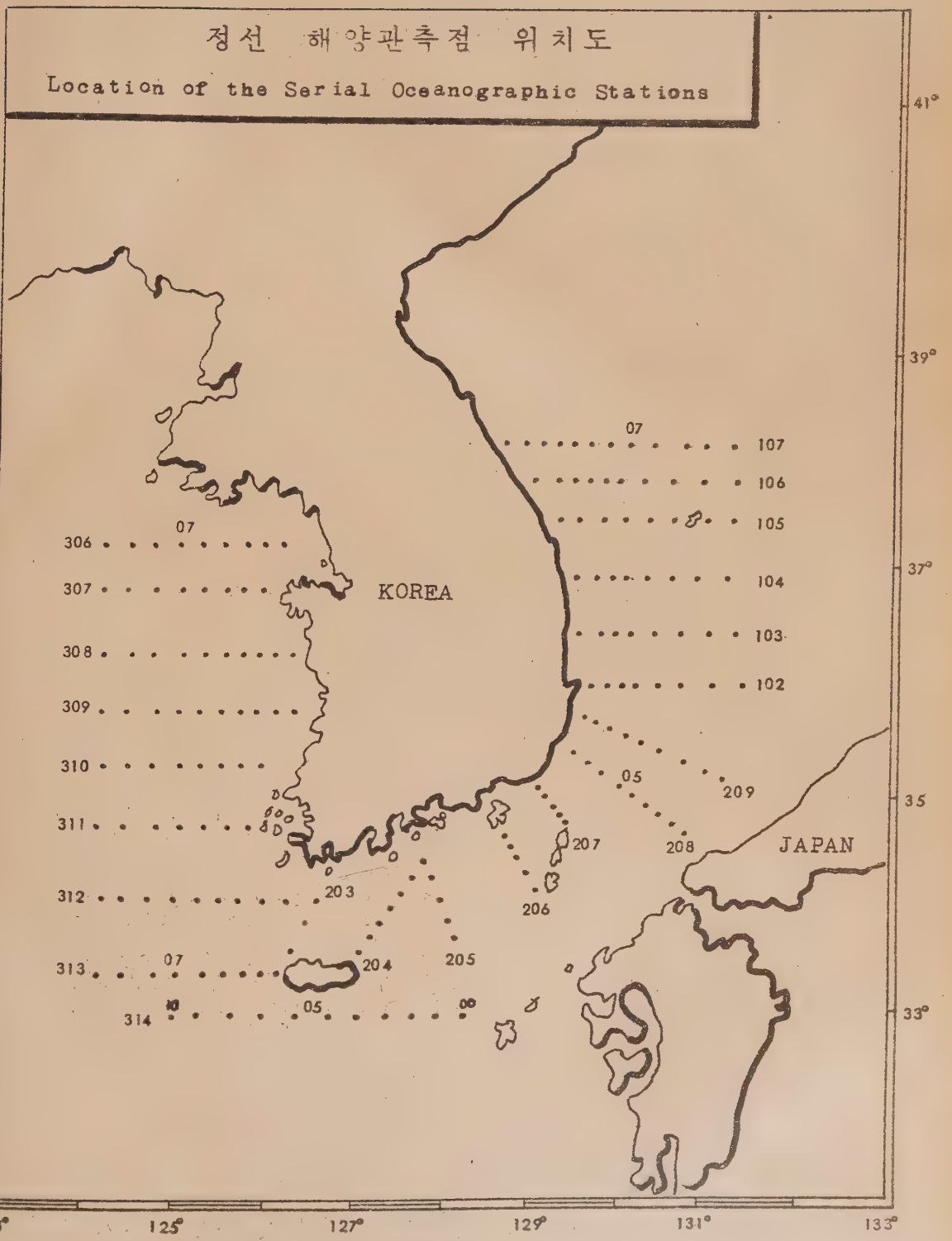
정선 해양관측점 위치도
Location of the Serial Oceanographic Stations
KOREA
JAPAN
07
107
106
105
104
103
102
05
209
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314
07
05
41°
39°
37°
35
33°
123°
125°
127°
129°
131°
133°

정선 해양관측점 위치표

Pasition of the Serial Oceanographic Stations

St. No. / Line	00	01	02	03	04	05
107		38° 12.6′ 128° 37.6′	38° 12.6′ 128° 42.7′	36° 12.6′ 128° 50.6′	38° 12.6′ 129° 03.5′	38° 12.6′ 129° 22.3′
106			37° 53.7′ 128° 52.5′	37° 53.7′ 128° 57.2′	37° 53.7′ 129° 53.8′	37° 53.7′ 129° 22.1′
105				37° 33.2′ 129° 10.3′	37° 33.2′ 129° 15.5′	37° 33.2′ 129° 22.6′
104					37° 03.4′ 129° 28.8′	37° 03.4′ 129° 33.6′
103					36° 30.3′ 129° 30.1′	36° 30.3′ 129° 35.4′
102					36° 04.6′ 129° 36.9′	36° 04.6′ 129° 41.3′
209					35° 47.3′ 129° 32.8′	35° 45.4′ 129° 38.4′
208		35° 28.5′ 129° 27.3′	35° 24.3′ 129° 33.8′	35° 17.8′ 129° 42.9′	35° 11.1′ 129° 52.7′	35° 04.8′ 130° 02.0′
207		35° 01.3′ 129° 07.2′	34° 57.6′ 129° 11.2′	34° 53.9′ 129° 15.4′	34° 50.2′ 129° 19.5′	34° 48.0′ 129° 21.8′
206		34° 35.5′ 128° 34.5′	34° 29.6′ 128° 41.2′	34° 22.4′ 128° 49.7′	34° 15.3′ 128° 58.0′	34° 08.1′ 129° 06.3′
205		34° 22.3′ 127° 48.5′	34° 15.0′ 127° 52.1′	34° 05.5′ 127° 56.9′	33° 51.5′ 128° 63.0′	33° 37.3′ 128° 09.2′
204		34° 20.8′ 127° 43.9′	34° 13.7′ 127° 35.4′	34° 06.7′ 127° 26.8′	33° 54.1′ 127° 15.2′	33° 45.5′ 127° 09.2′
203		33° 56.6′ 126° 31.4′	33° 47.5′ 126° 26.3′	33° 38.3′ 126° 21.3′		
314	33° 00.0′ 128° 00.6′	33° 00.0′ 127° 42.0′	33° 00.0′ 127° 24.0′	33° 00.0′ 127° 06.0′	33° 00.0′ 126° 48.0′	33° 00.0′ 126° 30.0′
313			33° 24.4′ 126° 00.0′	33° 24.4′ 125° 40.0′	33° 24.4′ 125° 36.0′	33° 24.4′ 125° 24.0′
312			33° 58.5′ 126° 26.0′	33° 59.8′ 125° 54.0′	34° 01.3′ 125° 42.0′	34° 02.6′ 125° 30.0′
311					34° 43.0′ 125° 43.9′	34° 43.0′ 125° 31.9′
310				35° 20.1′ 125° 49.3′	35° 20.1′ 125° 36.5′	35° 20.1′ 125° 24.4′
309		35° 51.3′ 126° 14.7′	35° 51.3′ 126° 02.0′	35° 51.3′ 125° 49.3′	35° 51.3′ 125° 37.0′	35° 51.3′ 125° 24.4′
308		36° 19.8′ 126° 14.4′	36° 19.8′ 126° 02.3′	36° 19.8′ 125° 50.0′	36° 19.8′ 125° 37.0′	36° 19.8′ 125° 25.3′
307				36° 56.5′ 126° 00.0′	36° 55.5′ 125° 37.7′	36° 55.5′ 125° 25.0′
306			37° 16.9′ 126° 03.1′	37° 16.9′ 126° 50.3′	37° 16.9′ 125° 37.8′	37° 16.9′ 125° 25.2′

06	07	08	09	10	11
38° 12.6′	38° 12.6′	38° 12.6′	38° 12.6′	38° 12.6′	38° 12.6′
129° 41.1′	130° 00.0′	130° 18.9′	130° 37.9′	130° 56.6′	131° 15.2′
37° 53.7′	37° 53.7′	37° 53.7′	37° 53.7′	37° 53.7′	37° 53.7′
129° 41.3′	130° 00.0′	130° 18.9′	130° 37.7′	130° 56.5′	131° 15.1′
37° 33.2′	37° 33.2′	37° 33.2′	37° 33.2′	37° 33.2′	37° 33.2′
129° 41.3′	130° 00.0′	130° 18.7′	130° 37.5′	130° 55.9′	131° 14.6′
37° 03.4′	37° 03.4′	37° 03.4′	37° 03.4′	37° 03.4′	37° 03.4′
129° 47.6′	130° 00.0′	130° 18.7′	130° 37.6′	130° 56.4′	131° 15.3′
36° 30.3′	36° 30.3′	36° 30.3′	36° 30.3′	36° 30.3′	36° 30.3′
129° 47.3′	130° 00.0′	130° 18.6′	130° 37.3′	130° 55.6′	131° 14.0′
36° 04.6′	36° 04.6′	36° 04.6′	36° 04.6′	36° 04.6′	36° 04.6′
129° 42.8′	130° 00.0′	130° 18.4′	130° 36.9′	130° 55.1′	131° 13.6′
35° 41.3′	35° 36.8′	35° 30.8′	35° 24.4′	35° 17.8′	35° 11.4′
129° 49.0′	130° 00.0′	130° 16.9′	130° 33.5′	130° 50.0′	131° 06.6′
34° 58.2′	34° 52.6′	34° 45.3′	34° 38.9′		
130° 11.9′	130° 20.9′	130° 30.6′	130° 40.5′		

33° 35.8′
128° 03.2′

33° 00.0′	33° 00.0′	33° 00.0′	33° 00.0′	33° 00.0′	
126° 12.0′	125° 54.0′	125° 36.0′	125° 18.0′	125° 00.0′	
33° 24.4′	33° 24.4′	33° 24.4′	33° 24.4′	33° 24.4′	
125° 12.0′	125° 00.0′	124° 48.0′	124° 36.0′	124° 24.0′	
34° 04.1′	34° 05.5′	34° 05.5′	34° 05.5′	34° 05.5′	
125° 18.0′	125° 00.0′	124° 48.0′	124° 36.0′	124° 24.0′	
34° 43.0′	34° 43.0′	34° 43.0′	34° 43.0′	34° 43.0′	
125° 19.4′	125° 00.0′	124° 47.9′	124° 35.8′	124° 23.4′	
35° 20.1′	35° 20.1′	35° 20.1′	35° 20.1′	35° 20.1′	
125° 12.1′	125° 00.0′	124° 47.9′	124° 35.6′	124° 23.5′	
35° 51.3′	35° 51.3′	35° 51.3′	35° 51.3′	35° 51.3′	
125° 12.3′	125° 00.0′	124° 47.8′	124° 35.1′	124° 22.8′	
36° 19.8′	36° 19.8′	36° 19.8′	36° 19.8′	36° 19.8′	
125° 12.4′	125° 00.0′	124° 47.5′	124° 35.1′	124° 23.0′	
36° 55.5′	36° 55.5′	36° 55.5′	36° 55.5′	36° 55.5′	
125° 12.5′	125° 00.0′	124° 47.5′	124° 34.8′	124° 22.3′	
37° 16.9′	37° 16.9′	37° 16.9′	37° 16.9′	37° 16.9′	
125° 12.7′	125° 00.0′	124° 47.4′	124° 34.8′	124° 22.3′	

Line \ St.No.	12	13	14	15	16	17
107	38°12.6' 131°34.1'	38°12.6' 131°53.6'				
106	37°53.7' 131°34.7'	37°53.7' 131°53.0'	37°53.7' 132°12.2'	37°53.7' 132°30.9'	37°53.7' 132°49.6'	
105	37°33.2' 131°33.8'	37°33.2' 131°52.2'	37°33.2' 132°11.2'	37°33.2' 132°29.8'	37°33.2' 132°48.4'	
104	37°03.4' 131°33.8'	37°03.4' 131°52.6'	37°03.4' 132°11.6'	37°03.4' 132°29.5'	37°03.4' 132°47.6'	
103						
102						
209						
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308						
307						
306						

동 해 해 양 조 사 성 적

OCEANOGRAPHIC DATA EASTERN WATERS

1 9 7 7

CEIN ENGINEERING MAIN ES

107 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 107

2월 (February) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	4	09:30	90	3	15	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1022	- 2.8	- 3.5		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	6.60	34.21	50	5.05	33.90
10	6.65	33.32	75	4.53	33.80
20	6.00	-	85	3.53	33.95
30	5.36	33.69			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	4	10:25	855	4	15	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1022	-2.0	-2.3	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.15	34.17	125	4.21	34.20
10	8.23	34.17	150	3.44	33.74
20	8.43	34.16	200	3.25	33.96
30	8.50	34.18	250	2.30	33.31
50	6.50	33.98	300	1.64	33.91
75	5.07	34.03	400	1.53	34.03
100	4.90	34.05	500	0.97	33.80

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	6	10:00	1120	3	25	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1033	3.7	2.1	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.10	34.02	125	6.78	34.01
10	8.55	34.01	150	4.90	33.88
20	8.70	34.08	200	3.35	34.06
30	8.72	34.09	250	2.30	34.05
50	8.73	34.09	300	1.93	34.04
75	8.78	34.06	400	1.28	34.06
100	7.80	34.08	500	0.97	34.06

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	6	11:30	1296	3	24	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1033	4.4	4.3	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.33	34.07	125	8.60	33.83
10	8.70	34.06	150	7.51	34.01
20	8.70	34.07	200	4.50	33.99
30	8.73	34.08	250	3.22	34.02
50	8.77	34.12	300	1.80	33.99
75	8.76	34.09	400	1.50	34.04
100	8.80	34.09	500	0.87	34.05

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	6	13:40	1080	2	25	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1032	2.7	1.0	Cu	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.60	34.11	125	6.72	33.97
10	8.83	34.13	150	5.67	34.02
20	8.89	34.13	200	4.52	33.87
30	8.79	34.15	250	4.45	33.98
50	8.80	34.12	300	2.20	33.95
75	8.80	34.12	400	1.83	33.90
100	6.90	34.02	500	1.75	33.98

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	6	15:40	882	2	18	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1031	0.8	0.6	Cu	3	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.54	34.04	125	4.39	34.01
10	5.63	34.06	150	3.17	33.97
20	5.65	34.06	200	1.88	33.97
30	5.61	34.05	250	1.79	34.00
50	5.47	34.05	300	1.59	33.99
75	4.99	34.01	400	1.13	34.05
100	4.43	34.02	500	0.71	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	6	17:40	346			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1030	-0.9	-1.0			S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.34	34.07	125	7.77	34.10
10	8.35	33.66	150	4.72	34.10
20	8.82	33.95	200	2.59	34.00
30	8.82	33.92	250	1.76	34.06
50	8.60	-	300	0.99	34.00
75	8.59	33.62	400	0.69	33.40
100	8.42	33.74	500	0.49	33.85

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	6	19:40	1980			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1031	-0.2	-0.3			S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.50	34.09	125	8.26	34.11
10	8.65	33.22	150	5.62	33.82
20	8.62	34.00	200	4.40	34.01
30	8.70	34.08	250	3.96	33.79
50	8.70	34.13	300	2.90	34.07
75	8.70	34.11	400	1.27	34.01
100	8.70	34.07	500	1.45	33.95

4월 (April)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	13	08:20	90	3	18	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1018.5	14.5	11.5		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.95	34.40	50	4.68	34.34
10	8.87	34.41	75	2.69	34.26
20	7.40	34.38	85	1.98	34.27
30	6.20	34.26			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	13	09:10	855	3	17	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1018	15.5	14.8		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.50	34.44	125	3.19	34.27
10	9.24	34.46	150	2.29	34.28
20	8.90	34.43	200	1.27	34.28
30	8.40	34.45	250	1.20	34.29
50	6.59	34.40	300	1.18	34.31
75	4.90	34.33	400	0.92	34.32
100	3.55	34.28	500	0.82	34.33

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	13	10:15	1120	2	17	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	2	1018	15.3	14.7		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.40	34.48	125	7.21	34.43
10	9.20	34.49	150	7.15	34.40
20	9.05	34.44	200	4.42	34.30
30	8.09	34.43	250	3.21	34.27
50	7.81	34.43	300	2.60	34.25
75	7.65	34.43	400	1.21	34.29
100	7.44	34.38	500	0.99	—

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	11:50	1296	3	13	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1018	13.4	12.8	Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.22	34.40	125	7.27	34.54
10	9.48	34.40	150	7.23	34.54
20	8.91	34.33	200	5.62	34.52
30	8.61	34.27	250	4.03	34.49
50	7.99	34.27	300	2.91	34.44
75	7.55	34.31	400	1.50	34.41
100	7.50	34.29	500	0.98	34.40

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	13:50	1080	2	15	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1016	16.2	14.5		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.09	34.47	125	7.01	34.40
10	9.09	34.44	150	6.56	34.39
20	8.68	34.46	200	5.05	34.30
30	8.25	34.43	250	3.85	34.32
50	8.09	34.43	300	2.19	34.23
75	8.01	34.42	400	1.18	34.27
100	7.22	34.41	500	0.98	34.30

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	13	15:55	882	2	14	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1014	15.1	14.3	Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.05	34.48	125	6.93	34.36
10	9.50	34.46	150	6.16	34.36
20	8.45	34.43	200	4.25	34.29
30	8.21	34.44	250	3.61	34.18
50	7.95	34.43	300	2.09	34.22
75	7.78	34.43	400	1.28	34.28
100	7.09	34.39	500	0.90	34.31

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	13	17:50	846	2	17	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1014	14.3	14.2	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.10	34.59	125	5.60	34.36
10	10.92	34.64	150	4.75	34.29
20	9.35	34.54	200	2.77	34.28
30	8.25	34.53	250	1.71	34.29
50	7.72	34.43	300	1.25	34.28
75	6.79	34.39	400	0.75	34.30
100	5.89	34.37	500	0.59	34.33

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	13	19:50	1980			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1014	11.1	10.9			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.92	34.63	125	4.40	34.30
10	10.90	34.67	150	2.48	34.29
20	8.10	34.52	200	2.12	34.25
30	6.94	34.44	250	1.50	34.30
50	5.43	34.37	300	1.10	34.31
75	5.00	34.31	400	0.70	34.33
100	4.70	34.29	500	0.49	34.33

6월 (June)　　조사선　지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	2	10 : 40	90	3	14	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1013.5	18.4	17.9	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.80	33.41	50	5.09	33.66
10	16.09	33.32	75	3.18	33.70
20	12.50	33.62	85	1.90	33.66
30	5.93	33.60			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	22	11 :50	355	3	14	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1013.5	19.8	18.7	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.55	33.22	125	1.50	33.71
10	11.80	33.47	150	0.75	33.69
20	8.95	33.63	200	0.71	33.69
30	5.78	33.74	250	0.65	33.60
50	3.79	33.75	300	0.60	33.72
75	1.71	33.66	400	0.39	33.70
100	1.68	33.69	500	0.29	33.77

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	22	12:50	1120	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	101.5	20.2	18.8	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.45	33.31	125	1.58	33.69
10	12.97	33.38	150	0.71	33.66
20	9.53	38.57	200	0.70	33.68
30	7.63	33.59	250	0.61	33.70
50	3.84	33.73	300	0.50	33.73
75	2.25	33.65	400	0.49	33.75
100	1.59	33.66	500	0.48	33.76

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	22	14:30	1296	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1013.5	21.9	19.5	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.21	33.22	125	1.55	33.70
10	16.52	33.16	150	1.45	33.72
20	14.55	33.34	200	0.89	33.71
30	9.72	33.70	250	0.75	33.70
50	3.15	33.69	300	0.61	33.72
75	1.70	33.67	400	0.57	33.75
100	1.60	33.69	500	0.55	33.77

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	22	16:30	1080	3	16	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1013.5	20.7	19.1	Cu	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.13	33.79	125	5.36	33.74
10	17.85	33.78	150	4.58	33.72
20	13.87	33.94	200	2.35	33.70
30	11.58	33.94	250	1.75	33.70
50	7.75	33.87	300	1.25	33.71
75	7.00	33.86	400	0.95	33.75
100	6.82	33.80	500	0.75	33.81

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	22	18:30	882	4		4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1013.5	22.2	21.7	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.22	33.53	125	4.05	33.74
10	17.89	33.70	150	3.56	33.76
20	15.65	33.94	200	1.93	33.69
30	11.89	34.04	250	1.30	33.73
50	8.05	33.91	300	0.78	33.73
75	5.91	33.83	400	0.61	33.75
100	5.21	33.77	500	0.58	33.77

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	22	20:30	846			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1013.5	20.6	19.5			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.41	33.58	125	2.92	33.73
10	16.85	33.77	150	2.74	33.74
20	16.30	33.90	200	1.94	33.75
30	13.20	33.91	250	1.30	33.77
50	7.04	33.85	300	0.95	33.77
75	4.25	33.77	400	0.70	33.78
100	3.40	33.77	500	0.50	33.77

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	22	23:40	1980			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1013.5	17.9	17.5			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.42	33.81	125	6.85	33.83
10	17.60	33.90	150	5.94	33.84
20	17.50	33.89	200	2.98	33.75
30	14.10	33.92	250	1.69	33.74
50	13.65	34.07	300	1.25	33.74
75	13.15	34.20	400	0.89	33.76
100	8.90	33.99	500	0.70	33.76

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	23	01:40	2142			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1013	17.8	17.2			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.50	33.93	125	8.20	33.84
10	17.85	33.93	150	7.75	33.84
20	17.30	33.89	200	4.95	33.77
30	14.60	34.00	250	2.30	33.74
50	13.19	34.08	300	1.40	33.74
75	10.59	33.91	400	0.93	33.75
100	8.74	33.86	500	0.80	33.76

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	23	03:50	1980			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1013.5	17.8	17.5			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.35	33.87	125	8.65	33.84
10	17.90	33.86	150	8.40	33.82
20	16.82	33.86	200	7.80	33.81
30	14.46	34.02	250	7.35	33.88
50	11.54	33.88	300	7.25	33.77
75	9.30	33.86	400	2.20	—
100	8.67	33.84	500	1.01	33.79

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	23	06:00	1800	3	18	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1013.5	17.9	17.7	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.72	33.85	125	8.91	33.85
10	18.03	33.84	150	8.23	33.83
20	17.15	33.87	200	6.27	33.79
30	14.36	34.00	250	6.25	33.77
50	13.58	34.16	300	4.12	33.82
75	11.07	33.95	400	1.53	33.75
100	9.20	33.87	500	1.21	33.76

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	23	08:00	1440	3	18	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1013.5	22.9	22.9	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.20	33.88	125	9.02	33.86
10	17.58	33.91	150	7.95	33.85
20	17.22	33.87	200	4.38	33.75
30	14.49	33.88	250	2.64	33.74
50	13.00	34.01	300	1.48	33.74
75	11.48	34.00	400	0.90	33.76
100	9.15	33.90	500	0.68	33.76

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	23	10:00	1260	3	18	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1013.5	18.4	18.2	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.84	33.87	125	8.12	33.82
10	17.60	33.87	150	6.90	33.82
20	15.12	33.95	200	4.50	33.75
30	13.90	34.13	250	2.84	33.72
50	13.25	34.17	300	2.64	33.73
75	10.52	33.98	400	2.00	33.72
100	8.51	33.86	500	1.41	33.75

8월 (August)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	9	07:00	90	4	17.	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1006.5	24.9	24.5	Cu	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.69	33.34	50	8.49	33.95
10	14.99	33.57	75	7.15	33.93
20	11.60	33.89	85	5.49	33.88
30	9.49	33.84			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	9	07:55	855	5	19	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1006.5	23.6	23.4	Cu	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.41	33.81	125	1.62	33.87
10	11.94	34.03	150	1.09	33.85
20	9.72	34.13	200	0.81	33.89
30	7.25	34.01	250	0.79	33.91
50	5.08	33.89	300	0.79	33.93
75	3.33	33.87	400	0.66	33.93
100	1.92	33.87	500	0.55	33.95

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	9	09:20	1120	4	20	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1006.5	24.3	24.0	Cu	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.93	33.51	125	1.92	33.88
10	11.20	33.82	150	1.37	33.83
20	8.40	33.96	200	0.72	33.88
30	7.02	34.03	250	0.70	33.90
50	5.12	33.97	300	0.59	33.91
75	3.59	33.94	400	0.58	33.96
100	2.10	33.88	500	0.50	33.99

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	9	11:00	1296	4	21	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1007	25.2	24.7	Cu	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.00	33.52	125	2.96	33.91
10	11.72	33.97	150	2.39	33.90
20	9.17	33.88	200	1.62	33.93
30	7.01	33.88	250	1.50	33.89
50	6.25	33.91	300	1.23	33.87
75	5.76	33.93	400	0.80	33.92
100	4.00	33.90	500	0.79	33.90

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	9	13:00	1080	4	17	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1007	25.4	24.9	Cu	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.05	33.72	125	3.55	33.87
10	13.82	34.23	150	2.00	33.86
20	11.29	34.19	200	1.35	33.82
30	8.79	34.05	250	1.00	33.82
50	6.30	33.97	300	0.85	33.83
75	5.02	34.03	400	0.59	33.83
100	3.76	33.96	500	0.55	33.84

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	9	15:00	882	3	15.6	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1007	24.9	24.9	Cu	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.38	33.75	125	5.39	33.94
10	15.17	34.32	150	3.55	33.89
20	13.60	34.30	200	1.87	33.86
30	13.51	34.34	250	0.98	33.85
50	13.14	34.22	300	0.91	33.95
75	9.02	34.06	400	0.80	33.87
100	7.09	34.90	500	0.65	33.91

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	9	17:05	846	3	16	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1007	23.5	23.0		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.10	33.74	125	5.63	33.92
10	19.12	33.56	150	3.13	33.88
20	15.21	33.72	200	2.60	33.85
30	15.03	34.25	250	1.71	33.98
50	13.91	34.33	300	1.12	33.89
75	11.10	34.05	400	1.05	33.86
100	8.42	33.98	500	0.80	33.89

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	9	19:05	1980			0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	2	1007	23.4	23.3			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.50	33.72	125	4.00	33.85
10	18.57	33.43	150	2.45	33.84
20	15.94	33.56	200	0.90	33.89
30	15.56	34.03	250	0.72	33.98
50	14.57	33.76	300	0.70	33.88
75	13.43	34.19	400	0.60	33.90
100	8.27	33.88	500	0.58	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	9	21:10	2142			0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1007	22.1	21.7			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.22	33.75	125	2.55	33.85
10	18.40	33.78	150	1.72	33.85
20	17.38	33.90	200	1.06	33.87
30	15.98	34.24	250	0.86	33.85
50	14.60	34.27	300	0.71	33.88
75	10.58	33.90	400	0.78	33.87
100	4.83	33.76	500	0.67	33.92

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	9	23:20	1980			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1007	22.4	22.0			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.21	33.74	125	3.95	33.90
10	19.34	33.89	150	2.88	33.87
20	18.35	33.94	200	1.49	33.84
30	16.86	34.22	250	1.00	33.90
50	14.21	34.23	300	0.99	33.87
75	12.90	34.19	400	0.81	33.84
100	6.68	33.87	500	0.65	33.93

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	10	01:20	1800			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1007	23.3	22.0			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.08	33.43	125	8.78	33.99
10	21.45	33.39	150	7.98	33.96
20	20.40	33.42	200	6.14	33.93
30	18.00	34.13	250	3.57	33.89
50	14.49	34.26	300	3.05	34.01
75	11.91	34.12	400	2.73	33.91
100	8.94	34.03	500	1.80	—

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	10	03 : 25	1440			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1007	23.2	22.9			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.20	33.86	125	8.50	33.96
10	17.98	34.03	150	8.32	33.95
20	15.31	34.23	200	8.29	33.96
30	14.30	34.31	250	8.27	33.97
50	10.85	34.11	300	8.20	33.97
75	8.97	34.29	400	2.83	33.91
100	8.75	34.02	500	1.12	33.89

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	10	05:20	1260	3	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1007	23.6	22.3	Cu	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.51	33.85	125	8.50	33.97
10	22.20	33.90	150	8.40	33.98
20	15.40	34.18	200	7.97	33.98
30	13.61	34.22	250	7.48	33.97
50	10.17	34.07	300	5.29	33.93
75	8.89	33.97	400	3.78	33.97
100	8.52	33.99	500	1.45	33.96

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	09	02:30	90			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1025	14.8	14.0			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.55	33.73	50	6.45	34.22
10	16.05	33.69	75	4.95	34.17
20	14.01	33.98	85	3.29	34.14
30	10.29	34.29			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	19	03:10	855			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1025	14.7	14.1			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.69	33.41	125	2.79	34.11
10	16.08	33.71	150	1.38	34.11
20	13.89	34.14	200	0.92	34.10
30	10.49	34.29	250	0.76	34.13
50	7.36	34.24	300	0.75	34.15
75	4.72	34.15	400	0.59	34.16
100	3.10	34.12	500	0.49	34.15

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	19	04:05	1120			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1025	15.2	14.7			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.92	33.75	125	2.19	34.09
10	16.35	33.69	150	1.79	34.11
20	15.08	33.84	200	1.01	34.13
30	10.22	34.28	250	0.76	34.13
50	6.76	34.24	300	0.70	34.13
75	3.87	34.14	400	0.65	34.15
100	2.90	34.11	500	0.57	34.17

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	19	05:30	1296			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1025	15.6	15.5			

Z m	T ℃	S ‰	Z m	T ℃	S
0	15.45	33.69	125	2.35	34.13
10	16.19	33.65	150	1.95	34.11
20	12.95	34.22	200	1.09	34.12
30	10.95	34.29	250	0.98	34.17
50	7.32	34.28	300	0.78	34.16
75	4.93	34.20	400	0.65	34.15
100	3.10	34.15	500	0.59	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	19	07:20	1080	3	14	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1026	17.2	16.7	Sc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.89	33.58	125	1.70	34.13
10	17.14	33.57	150	1.53	34.15
20	11.56	34.25	200	1.13	34.16
30	9.30	34.30	250	0.85	34.18
50	5.95	34.26	300	0.80	34.17
75	3.45	34.15	400	0.67	34.18
100	2.30	34.14	500	0.55	34.18

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	19	09:10	882	3	16	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1026	19.0	17.9	Ci	3	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.67	33.42	125	2.96	34.15
10	20.68	33.37	150	2.46	34.15
20	20.65	33.34	200	1.98	34.18
30	16.50	33.72	250	1.40	34.16
50	13.46	33.97	300	1.05	34.17
75	6.68	34.21	400	0.90	34.14
100	5.50	34.35	500	0.75	34.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	19	11:10	846	3	16	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1026	19.8	19.5	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.37	33.67	125	12.47	34.44
10	21.65	33.60	150	9.30	34.36
20	21.70	33.59	200	3.24	34.20
30	21.73	33.58	250	1.92	34.14
50	17.03	33.88	300	1.34	34.20
75	15.13	34.37	400	1.00	34.21
100	14.60	34.51	500	0.77	34.17

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	19	13:05	1980	3	18	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1026	22.6	22.4			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.40	33.83	125	14.89	34.48
10	21.94	33.80	150	12.25	34.47
20	21.95	33.78	200	10.52	34.37
30	21.78	33.79	250	6.75	34.27
50	17.85	34.15	300	4.62	34.15
75	16.75	34.31	400	2.19	34.13
100	15.19	34.41	500	1.49	34.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	19	14:50	2142	3	21	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1026	23.0	22.5		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.59	33.39	125	16.60	34.40
10	20.82	33.33	150	15.78	34.40
20	20.83	33.32	200	14.07	34.45
30	20.23	33.34	250	5.23	34.41
50	20.78	33.31	300	3.25	34.13
75	20.53	33.30	400	1.72	34.10
100	19.95	33.69	500	0.83	34.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	19	16:40	1980	3	21	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1026	20.8	20.0		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.45	33.32	125	14.58	34.38
10	20.45	33.21	150	14.49	34.42
20	20.69	33.21	200	13.38	34.45
30	20.39	33.38	250	9.12	34.30
50	17.15	34.17	300	6.06	34.21
75	15.81	34.35	400	3.19	34.11
100	14.83	34.40	500	1.38	34.08

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	19	18:30	1800			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	5	1023	16.8	16.5			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.36	33.50	125	14.93	34.48
10	20.75	33.45	150	12.00	34.41
20	20.37	33.45	200	3.90	34.11
30	21.00	33.51	250	2.13	34.13
50	21.00	34.15	300	1.21	34.12
75	16.23	34.35	400	0.90	34.12
100	15.46	34.40	500	8.75	34.17

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	19	20:20	1440			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1025	17.9	17.7			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.50	33.70	125	9.43	34.33
10	20.87	33.66	150	5.86	34.16
20	20.90	33.65	200	2.54	34.11
30	20.97	33.63	250	1.54	34.09
50	14.98	33.75	300	1.17	34.12
75	14.97	34.38	400	0.85	34.15
100	13.90	34.41	500	0.70	34.15

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	19	22:10	1260			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1024	18.0	17.9			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.54	33.82	125	9.01	33.69
10	20.62	33.75	150	7.44	33.76
20	20.70	33.76	200	5.32	33.78
30	14.75	33.81	250	3.98	34.10
50	13.60	33.74	300	1.90	34.13
75	12.75	34.13	400	1.74	34.10
100	10.01	34.12	500	0.75	34.10

12월 (December) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	15	16:15	90	3	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1025.5	13.8	13.7	As	6	Bc

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.73	34.60	50	10.09	34.22
10	12.82	33.99	75	8.79	34.29
20	12.61	34.13	85	5.31	34.39
30	11.17	34.13			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	15	16:55	855	4	9	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	4	1025	15.0	14.8	As	7	Bc

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.36	34.18	125	3.47	34.44
10	12.41	34.14	150	2.46	34.39
20	12.42	—	200	1.75	34.24
30	11.42	34.19	250	1.34	34.38
50	10.50	34.21	300	1.01	34.42
75	8.92	34.52	400	0.89	34.28
100	8.62	34.31	500	0.69	34.43

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	15	17:55	1120			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	3	1025	12.4	12.4	As	7	Bc

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.79	34.26	125	3.57	34.43
10	12.90	34.22	150	2.48	34.45
20	12.79	34.20	200	1.46	34.39
30	12.12	34.15	250	0.92	34.38
50	11.50	34.15	300	0.69	34.38
75	7.62	34.34	400	0.65	34.41
100	4.78	34.44	500	0.64	34.44

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	15	19:30	1296				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	3	1025	11.8	11.5			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.75	34.23	125	2.85	34.44
10	13.82	34.15	150	2.19	34.14
20	13.72	34.27	200	1.64	34.30
30	12.81	34.01	250	1.21	34.36
50	11.72	34.62	300	1.07	34.23
75	6.58	34.53	400	0.77	34.36
100	4.90	34.39	500	0.72	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	15	21:35	1080				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1025	14.4	14.0			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.26	34.51	125	8.60	34.41
10	16.20	34.63	150	6.89	34.34
20	16.12	34.58	200	4.52	34.52
30	15.70	34.23	250	4.09	34.52
50	14.20	34.15	300	2.80	34.49
75	13.10	34.59	400	1.70	34.43
100	9.69	34.43	500	1.01	34.34

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	15	23:30	882			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1024	14.2	14.1			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.00	34.34	125	12.37	34.34
10	15.00	34.15	150	9.71	34.17
20	14.99	34.04	200	9.10	34.03
30	15.02	34.17	250	5.49	34.01
50	15.07	34.38	300	4.51	34.00
75	15.09	34.53	400	1.58	34.00
100	13.77	34.48	500	1.07	34.33

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	16	01:30	846			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1024	14.2	13.6			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.90	34.26	125	13.75	33.92
10	15.00	34.09	150	12.05	33.87
20	15.00	33.89	200	11.85	33.88
30	14.80	34.00	250	11.06	33.87
50	14.75	33.96	300	6.12	33.88
75	14.71	33.98	400	2.90	33.86
100	14.55	-	500	1.29	33.79

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	16	03:30	1980			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1025	14.5	14.4			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.32	33.88	125	12.48	34.29
10	14.35	33.88	150	9.49	34.17
20	14.30	33.88	200	7.92	34.09
30	14.30	33.87	250	6.89	34.07
50	14.30	33.88	300	3.39	33.98
75	14.30	34.23	400	1.55	33.98
100	13.80	34.29	500	1.00	33.98

106선 해 양 관 측 성 적
OCEANOGRAPHIC DATA. LINE 106

2월 (February) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	7	16:50	58	4	20	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1030	5.3	4.8	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.68	34.03	30	7.00	-
10	7.94	34.04	50	4.63	33.62
20	7.90	34.01			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	7	16:00	320	3	21	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1030	7.0	6.0	Cu	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.50	34.05	100	6.83	33.78
10	8.55	34.09	125	4.62	33.95
20	8.90	33.82	150	3.93	33.96
30	8.62	34.04	200	2.10	34.04
50	8.61	34.16	250	1.66	33.89
75	8.60	34.17	300	1.57	33.97

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	7	15:10	710	3	21	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1030	0.7	0.3	As	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.55	33.29	125	8.50	34.09
10	8.60	34.01	150	8.55	34.09
20	8.60	34.11	200	4.10	33.97
30	8.70	34.10	250	2.68	34.02
50	8.70	34.11	300	2.00	34.03
75	8.68	34.12	400	1.14	34.04
100	8.70	33.91	500	0.76	34.05

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	7	13:00	1120	3	24	2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1030	1.2	0.9	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.46	33.96	125	7.56	34.12
10	8.69	34.09	150	7.38	34.06
20	8.65	34.08	200	6.17	34.06
30	8.76	34.07	250	4.44	34.04
50	8.80	34.26	300	2.45	33.99
75	8.79	34.26	400	1.68	34.04
100	7.65	34.10	500	0.94	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	7	11:00	1620	3	23	2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1030.5	1.3	0.8	Ns	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.53	34.08	125	6.18	-
10	8.60	33.88	150	4.07	33.86
20	8.68	34.08	200	3.24	33.85
30	8.71	34.10	250	2.76	33.96
50	8.10	34.03	300	2.68	34.02
75	7.24	33.91	400	1.36	34.00
100	7.21	33.86	500	1.18	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	7	09:00	1060	3	19	2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1030.5	1.3	0.9	NS	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.55	34.07	125	4.25	33.97
10	8.69	34.04	150	4.20	33.98
20	8.70	34.01	200	3.11	33.95
30	8.73	34.06	250	2.28	33.96
50	7.03	34.09	300	1.79	33.96
75	4.93	34.01	400	1.70	33.94
100	4.27	33.99	500	1.21	34.03

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	7	07:00	1800			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1031	1.0	0.4			S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.61	34.09	125	6.78	34.11
10	8.75	34.08	150	4.54	33.99
20	8.81	34.13	200	2.42	34.03
30	8.87	34.11	250	1.53	34.06
50	8.93	34.14	300	1.01	34.05
75	8.90	34.15	400	0.62	33.89
100	8.18	34.13	500	0.48	34.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	7	05:05	2250			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1031	1.1	0.4			S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.52	34.06	125	6.99	33.21
10	8.71	34.08	150	4.69	33.97
20	8.79	34.12	200	2.63	34.02
30	8.89	34.12	250	1.64	34.05
50	8.91	34.15	300	1.02	34.06
75	8.88	33.98	400	0.66	34.06
100	8.12	34.12	500	0.54	34.06

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	7	03:10	1980			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1030	0.9	0.4			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.40	33.87	125	8.60	34.01
10	8.54	33.96	150	8.60	33.90
20	8.60	33.53	200	8.55	34.05
30	8.63	33.93	250	5.60	34.05
50	8.62	33.99	300	3.32	34.04
75	8.61	34.05	400	1.60	34.04
100	8.60	33.91	500	0.84	34.21

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	7	01:10	2070			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1031	0.8	0.4			S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.16	33.93	125	8.80	34.01
10	8.80	34.04	150	8.90	34.06
20	8.81	33.99	200	8.85	34.05
30	8.85	33.99	250	4.30	34.21
50	8.85	33.91	300	2.32	34.27
75	8.88	34.02	400	1.00	33.84
100	8.93	33.84	500	0.94	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	14	17:45	58	2	13	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1011	18.3	17.4	Ci	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.61	34.33	30	7.51	34.40
10	9.36	34.35	50	5.75	34.36
20	7.98	34.38			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	14	16:50	320	4	15	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1012.5	20.1	17.8	Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.23	34.46	100	5.52	34.36
10	9.52	34.48	125	4.08	34.32
20	9.10	34.47	150	3.86	34.29
30	7.70	34.44	200	1.60	34.28
50	6.35	34.38	250	1.55	34.31
75	5.98	34.37	300	0.89	34.36

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	14	15:50	710	4	14	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1012.5	18.1	16.1		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.07	34.56	125	2.80	34.36
10	9.92	34.59	150	2.42	34.31
20	9.45	34.57	200	2.09	34.27
30	7.73	34.44	250	1.63	34.28
50	6.50	34.39	300	1.15	34.32
75	4.95	34.34	400	0.88	34.33
100	4.85	34.33	500	0.78	34.36

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	14	13:40	1120	4	14	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1012.5	13.5	13.3	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.50	34.59	125	5.60	34.35
10	10.30	34.61	150	4.82	34.44
20	9.75	34.54	200	3.17	34.46
30	8.92	34.53	250	1.80	34.27
50	7.80	34.48	300	1.25	34.32
75	6.60	34.42	400	0.90	34.33
100	5.99	34.34	500	0.71	34.33

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	14	11:40	1620	3	8	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1012.5	10.9	10.1	Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.05	34.67	125	4.39	34.33
10	11.05	34.73	150	3.45	34.31
20	11.03	34.72	200	2.10	34.30
30	8.38	34.58	250	1.35	34.38
50	6.25	34.33	300	1.03	34.32
75	5.06	34.41	400	0.71	34.33
100	4.89	34.35	500	0.49	34.33

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	14	09:35	1060	3	13	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1012.7	10.7	10.0		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.18	34.64	125	3.38	34.32
10	11.15	34.70	150	2.27	34.29
20	10.89	34.68	200	1.87	34.29
30	7.72	34.60	250	1.41	34.30
50	6.12	34.43	300	0.89	34.30
75	4.74	34.34	400	0.63	34.32
100	4.32	34.47	500	0.41	34.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	14	07:35	1800	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1013	10.9	10.2	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.10	34.65	125	3.39	34.35
10	11.09	34.70	150	2.35	34.29
20	10.50	34.68	200	1.90	34.29
30	7.75	34.52	250	1.30	34.30
50	6.03	34.39	300	0.99	34.32
75	4.69	34.32	400	0.95	34.31
100	4.21	34.35	500	0.36	34.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	14	05:25	2250			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1013	10.4	10.0			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.10	34.45	125	2.50	34.27
10	9.09	34.46	150	1.69	34.28
20	8.61	34.44	200	1.45	34.29
30	7.70	34.41	250	1.10	34.32
50	5.29	34.33	300	0.85	34.31
75	4.18	34.31	400	0.62	34.32
100	2.99	34.31	500	0.49	34.33

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	14	03:20	1980			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1014	11.3	11.0-			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.85	34.60	125	1.90	34.32
10	10.60	34.63	150	1.38	34.30
20	9.20	34.58	200	1.18	34.33
30	7.82	34.63	250	0.95	34.32
50	6.12	34.52	300	0.79	34.33
75	3.52	34.40	400	0.58	34.34
100	2.83	34.31	500	0.49	34.34

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	14	01:10	2070			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1016	11.1	10.8			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.43	34.63	125	2.17	34.32
10	10.39	34.64	150	2.14	34.31
20	10.10	34.64	200	1.41	34.33
30	8.71	34.60	250	1.08	34.33
50	6.02	34.57	300	0.82	34.33
75	3.20	34.35	400	0.60	34.33
100	2.91	34.31	500	0.48	34.36

6월 (June)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	21	04 : 45	58			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1014	17.4	16.6			

Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/ℓ
0	16.80	33.20	5.88	0.54	30	9.49	33.54	7.22	0.34
10	16.92	33.14	5.86	0.16	50	6.80	33.78	7.32	0.32
20	12.54	33.40	6.72	0.27					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	21	03:30	320			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1013	17.6	16.8			

Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/ℓ
0	16.80	33.38	5.66	0.23	100	4.10	33.64	6.42	0.68
10	15.99	33.20	6.02	0.11	125	2.92	33.69	6.74	0.79
20	11.50	33.42	7.18	0.20	150	2.49	33.70	6.22	1.36
30	8.84	33.56	6.94	0.34	200	1.82	33.69	6.42	1.02
50	5.74	33.65	7.02	0.34	250	1.30	33.53	6.92	0.79
75	5.10	33.69	7.14	0.50	300	1.19	33.70	6.82	1.02

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	21	02:20	710			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1013	19.6	18.3			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.78	33.80	125	3.50	33.74
10	17.56	-	150	3.07	33.72
20	16.90	33.89	200	1.97	33.73
30	13.00	33.99	250	1.32	33.71
50	7.70	33.87	300	0.79	33.71
75	5.20	33.87	400	0.37	33.69
100	3.80	33.74	500	0.32	33.71

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	20	24:00	1120			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1013.5	20.7	18.6			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.17	34.18	125	6.35	33.85
10	17.08	33.94	150	5.44	33.77
20	12.94	33.91	200	4.29	33.74
30	10.03	33.89	250	3.16	33.73
50	8.30	33.89	300	1.90	33.72
75	7.09	33.85	400	0.72	33.74
100	6.87	33.83	500	0.53	33.78

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	20	22:00	1020			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1013.5	20.6	18.8			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.61	33.89	125	6.18	33.81
10	16.41	33.56	150	5.41	33.79
20	12.59	34.00	200	3.57	33.74
30	10.61	33.90	250	2.58	33.73
50	7.62	33.90	300	1.78	33.73
75	7.38	33.87	400	0.38	33.72
100	6.82	33.86	500	0.23	33.77

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	20	19:40	1060			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1013.5	22.2	18.8			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.88	33.38	125	2.92	33.73
10	16.65	33.57	150	2.04	33.75
20	14.30	33.72	200	1.34	33.75
30	8.87	33.67	250	1.16	33.75
50	7.25	33.68	300	0.93	33.79
75	6.81	33.76	400	0.62	33.79
100	4.25	33.76	500	0.51	33.79

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	20	17:40	1800	2	20	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1014	24.4	22.2	As	8	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.89	33.64	125	8.27	33.84
10	17.37	33.65	150	6.40	33.85
20	17.10	33.64	200	4.20	33.74
30	14.90	34.08	250	2.52	33.85
50	13.98	34.23	300	1.98	33.86
75	10.98	34.10	400	0.99	33.78
100	8.40	33.89	500	0.56	33.81

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	20	15:20	2250	2	21	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1014.5	20.3	19.4	Ci	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.20	33.78	125	8.65	33.83
10	17.62	33.90	150	8.40	33.84
20	17.10	33.87	200	7.99	33.88
30	13.16	33.85	250	6.23	33.82
50	11.98	34.13	300	3.32	33.52
75	9.10	33.89	400	1.07	33.78
100	9.03	33.83	500	0.71	33.78

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	20	13:20	1980	2	18	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4						

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.87	33.90	125	8.44	33.85
10	17.27	33.91	150	8.39	33.85
20	14.61	33.98	200	7.80	33.83
30	13.99	34.18	250	6.20	33.80
50	13.28	34.16	300	4.43	33.78
75	9.32	33.89	400	1.21	33.81
100	8.90	33.83	500	0.87	33.78

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	20	11:00	2070	2	17	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1014.5	16.6	16.0	Cu	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.99	33.78	125	8.47	33.72
10	17.45	33.78	150	8.30	33.72
20	14.99	33.86	200	6.59	33.79
30	13.69	34.00	250	4.19	33.71
50	12.94	34.10	300	2.20	33.59
75	9.15	33.76	400	1.00	33.76
100	8.50	33.71	500	0.69	33.78

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	20	09:00	1630	3	16	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1014	16.1	15.9	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.70	33.70	125	7.71	33.81
10	17.13	33.69	150	6.35	33.81
20	17.05	33.56	200	3.91	33.84
30	13.83	33.67	250	1.97	33.76
50	11.38	33.67	300	1.28	33.73
75	9.09	33.67	400	0.76	33.75
100	7.92	33.68	500	0.60	33.72

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	20	06:40	2340	3	17	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1014	16.3	16.2	Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.45	33.77	125	7.35	33.71
10	17.43	33.76	150	6.49	33.74
20	15.98	33.80	200	6.30	33.66
30	14.05	33.98	250	2.65	33.63
50	11.80	33.87	300	2.15	33.67
75	8.79	33.77	400	0.96	33.64
100	7.38	33.72	500	0.68	33.65

7월 (July)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	7	09:35	58			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1007.5	23.5		Ci	10	C

Z m	T ℃	S ‰	O_2 %	PO_4-P μg·at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg·at/ℓ
0	19.16	33.34	5.23	0.09	30	9.00	33.82	6.84	-
10	18.20	33.63	5.29	0.14	50	6.06	33.96	6.83	0.43
20	14.29	33.72	5.93	0.20					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	7	08:35	320			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1007	23.2		Ci	10	C

Z m	T ℃	S ‰	O_2 %	PO_4-P μg·at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg·at/ℓ
0	19.45	34.26	5.23	0.07	100	2.38	33.96	6.03	0.64
10	18.51	34.02	4.93	0.16	125	1.83	34.05	6.33	0.77
20	14.54	33.71	6.12	0.14	150	1.59	33.98	6.13	0.91
30	8.94	33.86	6.02	0.25	200	0.99	33.98	6.73	0.88
50	7.10	33.91	7.15	-	250	0.80	33.97	6.63	-
75	4.10	34.02	5.97	0.50	300	0.67	34.02	6.34	0.93

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	7	07:20	720			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1007	22.2		Ci	10	C

Z m	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	19.95	33.59	4.70	125	2.53	34.01	5.97
10	19.56	33.81	5.04	150	1.87	34.02	5.66
20	13.66	33.85	6.04	200	0.92	33.99	6.63
30	9.73	33.89	6.62	250	0.70	33.98	6.26
50	5.57	34.09	5.85	300	0.58	33.99	6.33
75	3.62	34.03	6.03	400	0.52	34.02	6.14
100	2.89	34.00	6.64	500	0.38	34.07	5.77

8월 (August) 조사선 (지리산 Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	11	08:45	58	3	19	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	999	25.9	24.9	Ci	4	BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μgat/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μgat/ℓ
0	22.38	33.44	4.91	0.57	30	7.47	34.03	7.31	0.61
10	15.07	34.05	6.61	0.27	55	4.58	33.95	5.89	0.98
20	9.86	33.99	7.31	0.52					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	11	07:10	320	3	13	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	6	999	25.0	24.9	Ci	4	BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/L	Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/L
0	22.45	33.46	4.91	0.34	100	4.00	33.98	7.31	0.45
10	13.60	33.91	6.41	0.34	125	2.50	33.98	5.91	1.23
20	11.20	34.24	4.20	1.02	150	1.92	33.96	5.91	1.23
30	6.80	34.00	7.41	0.68	200	1.05	33.97	5.96	1.36
50	5.60	33.76	5.71	1.27	250	1.02	33.96	5.71	1.48
75	4.60	34.19	4.91	0.64	300	0.90	33.99	5.61	1.73

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	05:50	710	3	11	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	999	20.7	20.5	Cu	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.60	33.72	125	3.51	33.92
10	16.02	33.96	150	2.50	33.93
20	11.17	34.24	200	1.78	33.91
30	8.51	34.17	250	1.03	33.92
50	5.81	34.07	300	0.83	33.94
75	5.51	34.03	400	0.80	33.97
100	3.91	33.96	500	0.61	34.00

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	03:30	1120			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	6	999.5	21.8	21.2			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.41	33.11	125	7.00	34.23
10	18.97	33.40	150	6.85	34.06
20	15.70	33.65	200	4.61	33.98
30	13.91	34.10	250	2.74	33.91
50	13.47	34.28	300	2.01	33.93
75	11.12	34.28	400	0.75	33.92
100	10.17	34.11	500	0.73	33.94

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	22:40	1620			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	6	1000	22.8	22.6			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.87	34.11	125	8.85	34.07
10	20.74	34.17	150	8.60	34.03
20	19.30	34.27	200	7.80	34.01
30	16.74	34.03	250	3.63	-
50	14.78	34.09	300	2.58	33.94
75	13.69	34.08	400	0.82	33.92
100	9.24	34.08	500	0.52	33.99

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	20:20	1060			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	6	1000	23.2	23.1			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.93	33.05	125	8.97	34.11
10	20.98	—	150	7.20	34.07
20	19.30	33.38	200	5.73	34.28
30	16.27	33.22	250	3.75	34.16
50	13.78	33.88	300	1.73	34.01
75	12.90	34.24	400	0.73	33.93
100	10.49	34.14	500	0.73	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	10	18:15	1800	3	13	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1000	23.6	23.2	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.37	33.19	125	7.80	34.02
10	19.20	33.33	150	5.56	34.03
20	16.98	33.60	200	2.13	33.93
30	14.62	33.82	250	1.86	34.21
50	13.43	34.20	300	1.72	33.94
75	11.98	34.29	400	1.23	33.91
100	7.85	34.10	500	0.87	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	10	16:10	2250	3	17	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1001	24.4	24.2		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.30	33.19	125	9.45	34.07
10	19.81	33.38	150	7.70	34.02
20	16.65	33.47	200	5.30	33.97
30	15.37	34.01	250	2.87	34.17
50	14.71	34.29	300	2.01	33.97
75	13.59	34.32	400	0.87	34.00
100	10.25	34.13	500	0.41	33.91

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	10	14:10	1980	2	26	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1005	25.3	24.4	Cu	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.80	33.89	125	9.70	34.01
10	23.70	33.91	150	8.39	34.01
20	15.85	34.16	200	7.69	34.01
30	14.40	34.22	250	6.70	34.00
50	11.54	34.16	300	5.30	34.01
75	11.30	34.10	400	5.21	33.92
100	9.98	34.02	500	1.60	33.94

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	10	12:10	2070	2	25	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SW	5	1005	25.6	24.6	Cu	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.52	33.86	125	8.80	34.01
10	24.37	33.85	150	8.46	33.99
20	24.02	33.94	200	8.22	34.01
30	17.64	34.09	250	7.70	33.99
50	14.24	34.24	300	6.55	33.98
75	11.25	34.18	400	2.10	33.93
100	8.90	34.20	500	1.43	33.97

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	10	10:10	1630	2	24	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SW	5	1006	25.3	24.5	Cu	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.99	33.88	125	8.50	33.97
10	23.98	33.87	150	8.35	33.99
20	23.40	33.90	200	7.79	33.98
30	20.49	-	250	6.20	33.96
50	15.14	34.37	300	4.69	33.93
75	11.20	34.09	400	3.80	33.92
100	8.67	34.01	500	1.50	33.90

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	10	08:00	2340	2	17	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1007	25.2	24.3	Cu	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.13	33.68	125	8.21	34.01
10	23.18	33.69	150	7.69	34.02
20	17.93	33.99	200	7.25	34.13
30	15.70	34.20	250	5.11	34.00
50	13.78	34.32	300	3.08	33.82
75	10.40	34.12	400	1.30	33.89
100	9.70	34.16	500	0.79	33.93

10 월 (October) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	20	20:30	58			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1021	16.3	16.0			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.37	33.77	30	14.60	33.72
10	16.50	33.72	55	9.75	34.27
20	16.53	33.70			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	20	19:40	320			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1021	27.2	27.1			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.00	33.74	100	3.45	34.15
10	16.95	33.66	125	2.11	34.12
20	15.03	33.87	150	1.75	34.13
30	11.12	34.28	200	1.18	34.11
50	8.61	34.31	250	1.00	34.14
75	4.92	34.17	315	0.90	34.15

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	20	18:50	710			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1021	17.2	17.0			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.10	33.69	125	3.50	34.12
10	16.94	33.65	150	2.63	34.12
20	16.42	33.70	200	1.78	34.12
30	10.50	34.26	250	1.12	34.09
50	8.35	34.31	300	1.04	34.14
75	4.14	34.19	400	0.77	34.16
100	3.51	34.14	500	0.65	34.18

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	20	17:00	1120	4	18	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	6	1021	18.5	18.3			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.06	33.69	125	4.46	34.16
10	16.94	33.65	150	2.66	34.12
20	12.23	34.32	200	2.10	34.11
30	9.90	34.32	250	1.47	34.11
50	6.67	34.29	300	1.17	34.12
75	4.67	—	400	0.91	34.15
100	4.56	34.14	500	0.89	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	20	15:10	1620	4	19	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1023	21.0	20.2			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.20	33.19	125	11.07	34.27
10	20.35	33.10	150	9.53	34.28
20	19.83	33.17	200	7.36	34.23
30	18.20	33.45	250	5.23	34.16
50	18.04	33.98	300	4.78	34.16
75	11.60	34.33	400	2.59	34.15
100	11.30	34.31	500	1.64	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	20	13:10	1060	3	23	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1023	23.8	23.5	Cu	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.89	33.68	125	15.32	34.45
10	21.93	33.66	150	13.94	34.49
20	21.91	33.66	200	11.89	34.44
30	21.88	33.67	250	7.27	34.25
50	16.80	33.86	300	4.63	34.17
75	15.89	34.40	400	2.79	34.16
100	15.80	34.44	500	1.60	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	20	11:10	1800	3	23	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	4	1023	21.2	21.0	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.89	33.34	125	13.95	34.46
10	20.82	33.25	150	11.50	34.42
20	20.87	33.25	200	6.33	34.23
30	20.95	33.24	250	2.58	34.15
50	17.50	33.90	300	1.60	34.14
75	15.37	34.26	400	0.93	34.15
100	14.54	34.41	500	0.73	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	20	09:00	2250	3	22	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1025	19.8	19.3	Ci	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.74	33.37	125	13.87	34.44
10	21.02	33.27	150	12.30	34.47
20	21.00	33.28	200	5.24	34.23
30	21.10	33.27	250	2.45	34.16
50	18.70	33.79	300	1.57	34.17
75	15.38	34.24	400	0.95	34.17
100	14.87	34.39	500	0.70	34.17

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	20	06:20	1980			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1025	17.3	17.0	Ci	3	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.40	33.22	125	14.16	34.41
10	20.83	33.12	150	11.33	34.39
20	20.80	33.11	200	5.10	34.20
30	20.80	33.12	250	2.47	34.13
50	17.20	34.00	300	1.70	34.13
75	15.45	34.28	400	0.93	34.14
100	14.67	34.38	500	0.76	

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	20	04:10	2070			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1025	16.9	16.8			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.20	33.59	125	14.19	34.24
10	20.82	33.64	150	13.12	34.21
20	20.92	33.54	200	7.51	34.21
30	21.00	33.54	250	2.69	34.14
50	17.18	33.72	300	1.59	34.14
75	15.90	34.20	400	0.85	34.17
100	15.18	34.51	500	0.75	34.15

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	20	02:30	1630			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	4	1024	16.5	16.3			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.45	33.54	125	13.21	34.44
10	20.23	33.48	150	7.69	34.19
20	20.20	33.47	200	3.41	34.12
30	17.78	33.47	250	2.17	34.15
50	16.37	33.47	300	1.54	34.15
75	14.39	33.91	400	0.81	34.20
100	13.85	34.25	500	0.80	34.19

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	20	00:20	2340			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1024	16.9	16.8			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.95	33.58	125	3.52	34.11
10	20.50	33.55	150	2.42	34.10
20	20.60	33.59	200	2.10	34.10
30	14.09	34.29	250	1.51	34.12
50	11.93	34.32	300	1.31	34.17
75	6.25	34.16	400	0.90	34.14
100	4.18	34.13	500	0.61	34.14

12 월 (December) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	16	15:15	58	4	10	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1010	13.2	13.0	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.20	33.85	30	12.00	33.77
10	13.05	33.82	55	6.28	33.94
20	12.98	33.81			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	16	14:20	320	4	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1013	13.6	13.4	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.71	33.81	100	4.52	34.00
10	12.72	33.80	125	3.00	33.98
20	12.70	33.78	150	2.56	33.98
30	12.10	33.75	200	1.29	33.97
50	10.50	34.06	250	1.15	34.01
75	7.79	34.02	315	0.99	33.98

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	16	13:15	710	4	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1013.5	14.6	14.4	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.79	-	125	3.65	33.98
10	12.78	33.81	150	2.55	34.01
20	12.71	33.80	200	0.65	33.99
30	12.19	33.69	250	0.62	34.01
50	7.12	34.05	300	0.61	34.02
75	7.10	33.82	400	0.59	34.03
100	6.98	33.89	500	0.51	34.05

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	16	11:30	1120	3	12	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1017	12.1	12.0	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.04	33.81	125	4.47	34.02
10	13.04	33.82	150	4.10	34.01
20	13.01	33.82	200	2.34	34.01
30	12.91	33.77	250	1.60	34.03
50	12.27	34.05	300	1.21	34.01
75	9.30	33.93	400	0.89	34.02
100	5.10	34.06	500	0.69	33.85

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	16	09:40	1620	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1018	15.5	15.0	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.30	33.94	125	10.92	34.24
10	15.35	33.92	150	5.89	34.21
20	15.30	33.96	200	4.50	34.07
30	15.30	33.93	250	2.71	34.01
50	15.12	33.89	300	1.97	33.99
75	15.20	34.02	400	1.37	34.03
100	12.99	34.26	500	1.00	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	16	07:40	1060	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1019	13.0	12.0	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.02	33.88	125	15.02	33.88
10	15.00	33.88	150	15.03	33.87
20	15.08	33.87	200	14.80	34.19
30	15.09	33.87	250	13.08	34.28
50	15.05	33.87	300	9.80	34.19
75	15.10	33.86	400	4.80	34.05
100	15.06	34.21	500	2.69	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	16	05:50	1800			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1025	14.8	13.8			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.80	33.86	125	13.10	33.96
10	14.95	33.86	150	9.98	34.18
20	14.99	33.86	200	7.30	34.20
30	14.95	33.83	250	5.21	33.99
50	15.01	33.93	300	2.90	33.97
75	14.19	33.87	400	1.59	34.00
100	13.56	33.89	500	1.20	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	20	17:40	2250			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	6	1022	12.4	11.8	Cu	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.49	33.89	125	13.75	34.24
0	13.60	33.88	150	13.38	34.26
20	13.78	33.88	200	8.56	34.12
30	13.85	33.88	250	5.75	34.05
50	13.94	33.88	300	4.31	34.01
75	13.98	33.88	400	1.71	34.00
100	14.00	33.95	500	1.00	34.03

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	20	19 : 40	1980			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1023	7.6	6.2			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.49	33.92	125	12.45	33.92
10	13.67	33.90	150	10.80	34.09
20	13.62	33.91	200	6.98	34.09
30	13.68	33.90	250	4.75	34.01
50	13.70	33.93	300	3.21	34.01
75	13.70	33.92	400	1.80	33.99
100	13.57	33.92	500	1.20	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	20	21:35	2070			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1023	7.0	6.0			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.72	33.99	125	13.23	34.07
10	13.90	33.99	150	12.88	34.25
20	13.92	33.99	200	9.08	34.15
30	13.97	33.99	250	4.97	34.03
50	14.00	-	300	2.99	34.01
75	13.92	33.98	400	1.59	34.02
100	13.77	33.96	500	1.32	34.00

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	20	23:40	1630			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1023	6.0	5.5			S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.21	33.95	100	10.80	33.97
10	12.61	33.99	125	9.80	34.23
20	12.72	33.98	150	7.67	34.22
30	12.70	33.99	200	5.73	34.19
50	12.02	33.97	250	5.00	34.03
75	12.00	33.98	300	2.95	33.97

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	21	01:30	2340			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1023	5.0	4.8			R. S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.70	33.97	100	6.62	34.15
10	12.20	33.97	125	4.95	34.15
20	12.30	33.97	150	3.05	34.09
30	12.36	33.97	200	2.46	34.06
50	12.40	33.98	250	2.12	34.07
75	9.32	34.21	300	1.51	34.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
14	21	03:05	2340			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1003	4.0	3.8			R. S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.38	33.97	100	6.25	34.17
10	12.02	33.96	125	4.76	34.13
20	12.49	33.99	150	3.70	34.08
30	12.35	33.97	200	2.60	34.07
50	9.08	34.18	250	1.98	34.07
75	6.43	34.17	300	1.18	34.08

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
15	21	05:25	2340			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	7	1022	4.2	4.0			R. S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.19	33.96	100	4.09	34.11
10	12.01	33.94	125	3.15	34.11
20	12.35	33.94	150	2.36	34.19
30	12.40	33.94	200	1.23	34.10
50	12.40	33.94	250	1.08	34.09
75	12.40	33.95	300	0.91	34.11

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
16	21	07:30				2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW		1023	4.5	4.5			S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.62	-	100	7.70	-
10	12.62	-	125	5.62	-
20	12.62	-	150	4.82	-
30	12.68	-	200	3.40	-
50	12.00	-	250	2.12	-
75	11.40	-	300	1.60	-

105 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 105

2월 (February) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	8	08:00	48	3	22	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	6	1030	5.4	4.5	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.00	34.11	30	8.40	-
10	8.30	34.12	40	8.40	33.93
20	8.25	34.16			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	8	08:45	250	3	21	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1030	4.6	2.8	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.48	34.12	100	6.00	34.05
10	8.45	34.09	125	5.13	33.87
20	8.55	33.71	150	4.64	33.96
30	8.50	33.61	200	3.65	34.04
50	8.37	33.81	245	1.87	34.00
75	8.33	33.84			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	8	09:50	380	3	19	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1030	3.4	1.3	Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.60	34.08	125	5.92	34.03
10	8.20	33.93	150	4.71	34.00
20	8.30	33.95	200	4.35	33.91
30	8.06	34.05	250	2.97	34.03
50	7.70	34.05	300	1.60	34.04
75	7.03	34.04	375	1.25	-
100	6.95	34.04			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	8	12:00	810	3	23	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1028	7.8	6.4	Ci	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	6.80	34.06	125	4.07	34.02
10	6.89	-	150	2.49	33.78
20	6.68	34.06	200	2.12	34.02
30	6.48	34.08	250	1.16	34.00
50	4.92	33.90	300	0.86	34.14
75	4.81	33.99	400	0.62	33.72
100	4.49	34.01	500	0.55	33.75

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	8	14:00	1480	2	20	2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1027	4.9	3.1	Ci	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.53	34.06	125	8.83	34.14
10	8.53	34.08	150	6.52	-
20	8.52	33.84	200	3.01	-
30	8.52	33.97	250	1.78	34.04
50	8.52	34.09	300	1.09	34.20
75	8.62	34.15	400	0.64	34.19
100	8.69	33.75	500	0.53	33.67

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	8	16:00	1503	2	19	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1027	2.9	1.3	Ci	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.32	34.10	125	8.71	34.13
10	8.42	34.04	150	8.55	34.13
20	8.50	34.09	200	7.56	34.12
30	8.50	34.05	250	2.81	33.93
50	8.54	34.06	300	2.13	34.02
75	8.54	34.07	400	1.10	34.09
100	8.56	34.07	500	0.71	34.06

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	8	18:00	1140			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1027	3.0	1.8			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.76	34.05	125	8.80	34.02
10	8.85	34.01	150	8.82	34.05
20	8.88	34.00	200	8.83	34.04
30	8.90	33.85	250	7.94	34.06
50	8.90	34.01	300	4.45	34.08
75	8.90	34.02	400	1.50	34.06
100	8.90	34.02	500	0.85	34.06

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	8	20:10	1800			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1026.5	4.4	3.5			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.65	-	125	8.90	34.04
10	8.80	33.66	150	8.92	34.03
20	8.82	33.98	200	8.91	34.04
30	8.90	34.10	250	8.30	34.17
50	8.95	33.93	300	7.30	34.13
75	8.93	33.87	400	2.00	34.06
100	8.95	34.03	500	0.90	34.69

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	8	22:10	2375			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1026	4.8	3.8			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.53	34.00	125	8.65	34.04
10	8.73	34.03	150	8.65	34.05
20	8.75	34.03	200	8.67	34.04
30	8.75	34.03	250	8.03	34.04
50	8.77	34.02	300	7.35	34.03
75	8.73	34.03	400	1.53	34.06
100	8.70	34.04	500	0.85	34.05

4월 (April) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	17	06:35	48	5	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1005	13.9	11.1	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.42	33.89	30	8.70	34.42
10	9.20	34.23	45	7.25	34.38
20	8.85	34.41			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	17	07:35	250	2	20	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1005	11.9	10.6	Ci	7	Bc

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.99	34.45	100	2.72	34.26
10	8.75	34.46	125	2.24	34.28
20	8.69	34.55	150	1.59	34.28
30	7.17	34.41	200	1.22	34.29
50	5.09	34.37	245	1.02	34.31
75	3.27	34.29			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	17	08:30	380	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1005	14.9	12.9	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.10	34.44	125	2.58	34.32
10	9.01	34.45	150	1.72	34.27
20	8.93	34.46	200	1.38	34.28
30	8.69	34.45	250	1.10	34.30
50	7.90	34.46	300	0.91	34.32
75	4.45	34.39	375	0.69	34.31
100	3.26	34.35			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	20	08:05	810	3	13	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	5	1008.5	16.9	11.5	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.87	34.39	125	5.92	34.34
10	8.54	34.38	150	4.40	34.34
20	8.49	34.42	200	1.99	34.39
30	8.23	34.47	250	1.47	34.40
50	8.10	34.34	300	1.20	34.31
75	6.56	34.34	400	0.87	34.41
100	5.92	34.34	500	0.62	34.34

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	20	10:10	1400	3	13	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1010	16.8	13.5		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.31	34.67	125	8.10	34.36
10	12.00	34.72	150	7.68	34.35
20	9.30	34.42	200	5.93	34.39
30	9.25	34.40	250	2.11	34.23
50	8.91	34.37	300	1.60	34.29
75	8.25	34.39	400	0.98	34.38
100	7.98	34.39	500	0.61	34.41

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	20	12:30	1500	2	16	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
S	5	1008.5	12.8	12.0		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.30	34.41	125	8.45	34.38
10	9.61	34.39	150	8.10	34.37
20	9.45	34.39	200	7.48	34.35
30	9.32	34.40	250	6.09	34.33
50	9.01	34.39	300	3.95	34.27
75	8.92	34.37	400	1.81	34.30
100	8.46	34.37	500	0.78	34.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	20	14:30	1140	2	18	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SW	5	1007	15.0	12.9		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.49	34.45	125	8.59	34.41
10	10.08	34.48	150	8.45	34.41
20	9.65	34.48	200	7.60	34.35
30	9.55	34.48	250	6.70	34.36
50	9.42	34.48	300	4.10	34.32
75	9.05	34.43	400	1.35	34.30
100	8.70	34.41	500	0.82	—

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	20	16:50	1850	2	18	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	5	1007	13.4	12.1		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.58	34.36	125	8.19	34.38
10	9.40	34.39	150	7.85	34.36
20	9.23	34.40	200	7.00	34.38
30	9.25	34.40	250	5.69	34.35
50	9.00	34.41	300	4.29	34.28
75	9.00	34.40	400	1.75	34.28
100	8.20	34.39	500	0.80	34.30

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	20	18:50	2375			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	5	1009	11.5	11.3		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.27	34.43	125	8.38	34.40
10	9.24	34.42	150	7.14	34.49
20	9.20	34.42	200	6.27	34.40
30	9.14	34.42	250	5.84	34.35
50	9.07	34.45	300	3.40	34.23
75	8.99	34.42	400	1.22	34.30
100	8.52	34.44	500	0.73	34.32

6월 (June)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	19	08:40	48	3	12	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1014.5	21.3	19.0	As	10	C

Z m	T ℃	S ‰	O₂ %	PO₄-P μg.at/ℓ	Z m	T ℃	S ‰	O₂ %	PO₄-P μg.at/ℓ
0	17.24	33.68	-	0.57	30	12.13	34.00	6.06	0.34
10	17.00	33.65	5.54	0.18	45	6.82	33.79	5.84	0.70
20	16.10	33.66	5.92	0.11					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	19	09:45	250	3	16	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1014.5	23.2	19.9	As	9	C

Z m	T ℃	S ‰	O₂ %	PO₄-P μg.at/ℓ	Z m	T ℃	S ‰	O₂ %	PO₄-P μg.at/ℓ
0	17.21	33.67	5.56	0.14	100	6.73	33.74	6.22	0.57
10	16.53	33.67	5.62	0.11	125	5.13	33.67	6.02	0.79
20	16.39	33.82	5.92	0.11	150	4.37	33.64	6.22	0.68
30	12.21	33.81	6.42	0.23	200	2.88	33.63	6.52	1.02
50	10.83	33.79	6.42	0.41	245	1.57	33.63	5.92	1.00
75	8.10	33.77	6.22	0.50					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	19	10:45	380	3	12	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1014.5	23.1	21.2	As	10	C

Z m	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	16.08	33.80	–	125	4.93	33.66	6.14
10	17.14	33.80	5.62	150	4.38	33.62	6.50
20	15.21	33.81	6.16	200	2.91	33.61	6.33
30	13.00	33.88	5.92	250	2.32	33.62	6.03
50	8.04	33.79	5.23	300	1.48	33.63	6.14
75	6.75	33.74	5.93	375	0.90	33.67	6.41
100	6.40	33.69	5.92				

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	19	13:00	810	3	12	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1015	20.0	19.5	As	10	C

Z m	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	16.55	33.64	5.34	125	3.25	33.65	–
10	16.48	33.65	5.61	150	2.57	33.62	6.22
20	13.29	33.86	6.23	200	1.70	33.64	6.13
30	10.94	33.92	5.73	250	1.25	33.67	5.63
50	7.30	33.83	5.31	300	1.07	33.66	5.73
75	5.10	33.68	6.35	400	0.78	33.68	6.63
100	3.81	33.66	6.53	500	0.56	33.68	5.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	19	15:00	1480	3	18	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1014.5	18.9	18.7	As	10	C

Z m	T ℃	S ‰	O₂ %	Z m	T ℃	S ‰	O₂ %
0	16.91	33.81	5.20	125	2.11	33.63	5.53
10	17.07	33.80	5.65	150	1.96	33.63	5.83
20	17.06	33.81	5.73	200	1.68	33.65	5.70
30	9.73	33.78	6.14	250	1.12	33.66	6.12
50	5.63	33.71	5.63	300	0.86	33.66	5.54
75	2.90	33.66	5.63	400	0.61	33.67	5.63
100	2.45	33.64	5.90	500	0.49	33.58	5.53

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	19	17:20	1503	3	16	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1014	17.6	17.4	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.65	33.70	125	6.00	33.87
10	16.92	33.68	150	4.29	33.81
20	16.85	33.58	200	2.01	33.79
30	15.10	33.85	250	1.50	33.78
50	13.80	34.23	300	1.13	33.86
75	11.29	34.18	400	0.76	33.86
100	7.75	33.91	500	0.60	33.90

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	19	19:20	1140			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1014	16.8	16.8			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.10	33.69	125	8.46	33.74
10	17.40	33.69	150	7.90	33.73
20	16.65	33.75	200	6.11	33.70
30	14.50	33.79	250	3.72	33.66
50	12.99	33.88	300	2.05	33.66
75	10.41	33.82	400	1.45	33.74
100	8.90	33.77	500	0.74	33.71

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	19	21:40	1850			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1014	16.2	16.1			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.75	33.73	125	8.40	33.73
10	17.23	33.74	150	8.23	—
20	17.40	33.75	200	7.38	33.72
30	14.12	33.73	250	5.65	33.71
50	11.55	33.80	300	2.72	33.66
75	8.98	33.75	400	1.13	33.66
100	8.53	33.71	500	0.72	33.66

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	19	23 : 40	2375			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1014	16.2	15.2			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.00	33.82	125	8.38	33.74
10	17.07	33.82	150	8.31	33.73
20	15.75	33.83	200	6.90	33.72
30	14.32	33.90	250	4.00	—
50	12.60	34.04	300	2.00	—
75	9.17	33.77	400	0.99	33.66
100	8.75	33.71	500	0.74	33.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	20	02:00	2250			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1014	16.3	15.5			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.80	33.85	125	8.15	33.74
10	17.29	33.87	150	7.21	33.74
20	17.25	33.87	200	4.54	33.67
30	14.46	34.05	250	2.68	33.65
50	13.50	34.09	300	1.83	33.66
75	11.30	33.96	400	0.92	33.66
100	9.40	33.84	500	0.45	33.80

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	20	04:00	2470			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1014	16.1	15.3			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.32	33.72	125	7.12	33.74
10	16.71	33.68	150	5.83	33.75
20	16.61	33.66	200	3.89	33.75
30	12.92	33.66	250	1.61	33.77
50	10.51	33.66	300	0.99	33.84
75	8.25	33.66	400	0.65	33.74
100	7.49	33.67	500	0.51	33.71

7월 (July) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	10	09:45	48			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	996.5	26.0		Ci	8	C

Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/l	Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/l
0	22.50	33.74	4.94	0.67	30	10.90	34.33	-	0.48
10	20.29	34.25	-	0.14	45	7.87	34.19	6.10	0.54
20	13.21	33.72	5.17	0.20					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	10	10:30	250			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	996.5	27.0		Ci	6	BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/l	Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/l
0	20.46	33.67	-	0.07	100	3.51	34.03	5.84	0.48
10	18.54	34.31	-	0.11	125	2.41	34.04	5.70	0.64
20	18.79	34.10	5.63	0.25	150	1.44	33.96	6.83	-
30	11.98	33.40	5.33	0.22	200	1 18	34.02	6.41	-
50	6.41	34.34	5.95	0.48	245	1.19	34.04	5.90	1.02
75	4.67	34.08	5.17	0.45					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	10	12:20	380			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	997	26.9		Ci	6	BC

Z m	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	20.32	33.76	4.87	125	2.65	34.06	4.90
10	19.37	33.76	4.99	150	1.86	34.03	5.97
20	11.33	34.38	5.87	200	1.38	34.09	5.78
30	8.05	34.21	6.13	250	1.07	34.07	5.62
50	4.59	34.06	5.77	300	0.98	34.08	5.73
75	3.40	34.04	4.64	375	0.69	34.07	5.62
100	3.41	34.03	5.98				

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	14:40	810	4		2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	997	27.1		Ci	6	BC

Z m	T ℃	S ‰	O₂ %	Z m	T ℃	S ‰	O₂ %
0	22.47	33.77	5.01	125	3.95	34.06	5.11
10	20.19	33.72	4.92	150	2.99	34.07	5.61
20	15.14	34.12	4.92	200	1.57	34.02	5.93
30	13.56	34.52	3.82	250	1.39	34.02	6.01
50	8.72	34.30	5.23	300	1.28	34.07	5.38
75	5.92	34.09	5.93	400	0.82	34.08	5.53
100	4.47	34.09	6.07	500	0.69	34.06	5.43

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	16:55	1480			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	997	26.7		Ci	6	BC

Z m	T ℃	S ‰	O₂ %	Z m	T ℃	S ‰	O₂ %
0	21.22	33.96	4.83	125	6.66	34.12	5.74
10	18.39	34.10	4.13	150	5.74	34.10	5.51
20	16.73	34.15	6.31	200	2.62	34.06	5.51
30	13.38	34.37	5.83	250	1.67	34.04	-
50	12.74	34.40	4.83	300	1.29	34.06	5.53
75	8.73	34.21	5.02	400	0.90	34.07	5.63
100	7.37	34.19	5.87	500	0.74	34.06	5.45

8월 (August)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	11	13:50	48	4	16	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	998	15.9	14.7	Cu	3	BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ
0	23.30	33.27	4.86	0.45	30	10.31	33.78	7.20	0.27
10	20.60	33.34	5.61	0.23	45	7.21	33.99	7.53	3.45
20	12.50	33.30	6.91	0.98					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	14:35	250	4	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	998	25.3	24.6	Cu	3	BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ
0	21.61	33.32	4.85	0.27	100	2.92	33.96	5.95	1.14
10	15.39	34.01	6.01	0.73	125	2.71	33.95	6.05	1.02
20	12.87	34.13	6.69	0.59	150	1.62	33.94	5.71	1.18
30	7.91	34.00	7.40	0.32	200	1.00	33.94	6.11	1.27
50	7.72	33.99	6.71	0.39	245	0.85	33.92	5.91	1.59
75	5.12	33.97	6.11	0.86					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	15:45	380	3	16	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	998	25.3	24.4	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.99	33.60	125	3.69	33.96
10	17.42	33.36	150	3.21	34.08
20	13.20	34.30	200	1.50	33.97
30	11.55	34.30	250	0.94	33.97
50	6.59	34.11	300	0.90	33.98
75	6.40	34.13	375	0.69	34.01
100	4.05	34.01			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	11	17:50	810	4	19	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	998	25.4	24.3	Cu	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.90	33.19	125	10.25	34.26
10	18.05	33.38	150	8.90	34.14
20	16.52	33.57	200	4.30	34.01
30	14.88	34.12	250	2.85	33.98
50	13.83	34.27	300	2.03	33.98
75	12.18	34.29	400	1.22	34.01
100	11.08	34.11	500	0.97	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	11	19:55	1480			0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	998	23.9	23.1			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.85	33.38	125	9.30	34.19
10	22.30	–	150	8.40	34.08
20	17.74	33.62	200	6.87	34.20
30	16.74	33.97	250	4.08	34.01
50	14.96	34.01	300	2.10	33.96
75	14.20	34.22	400	1.23	33.98
100	10.95	34.28	500	0.90	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	11	21:50	1503			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4.	998	24.1	23.2			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.46	33.90	125	10.07	34.12
10	22.80	33.86	150	8.68	34.18
20	18.10	33.78	200	7.14	34.07
30	16.92	33.86	250	4.58	34.01
50	15.08	34.22	300	2.43	34.00
75	13.98	34.39	400	0.97	33.94
100	11.89	34.28	500	0.89	34.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	11	23:45	1140			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1008	22.7	22.5			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.27	33.10	125	13.36	34.39
10	22.70	33.33	150	9.81	34.24
20	17.74	33.51	200	5.14	34.00
30	16.06	33.66	250	2.50	34.12
50	15.27	34.04	300	1.71	34.00
75	14.47	34.33	400	0.95	34.00
100	13.80	34.39	500	0.61	34.02

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	12	01:40	1140			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	999	21.5	21.2			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.49	33.90	125	10.29	34.12
10	24.31	33.98	150	8.14	34.08
20	21.02	33.85	200	6.12	-
30	15.68	34.27	250	2.19	34.00
50	14.02	34.35	300	1.46	34.05
75	11.78	34.30	400	0.89	34.02
100	10.81	34.10	500	0.65	34.03

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	12	03:35	2375			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	999	24.6	24.4			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.41	33.78	125	10.39	33.98
10	20.39	34.15	150	8.21	33.98
20	17.87	34.10	200	7.39	33.84
30	15.43	33.91	250	2.21	34.10
50	13.86	34.32	300	1.78	33.97
75	12.13	34.26	400	0.89	33.99
100	11.02	34.09	500	0.69	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	12	05:30	2250	3	26	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	3	999.5	24.3	24.0	Cu	3	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.38	33.81	125	7.25	33.89
10	23.21	33.96	150	6.30	34.04
20	18.31	34.07	200	4.21	34.20
30	15.61	34.29	250	2.09	34.01
50	13.50	34.36	300	1.71	34.07
75	9.25	34.25	400	0.90	34.04
100	8.15	34.12	500	0.69	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	12	07:30	2470	3	21	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1000	26.5	25.2	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.30	33.81	125	5.78	34.08
10	24.30	33.79	150	4.40	34.02
20	18.90	34.10	200	2.37	34.01
30	15.00	34.23	250	1.57	-
50	13.20	34.35	300	1.00	34.02
75	9.80	34.23	400	0.65	34.04
100	7.00	34.11	500	0.50	-

10 월 (October) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	18	21:25	48			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1023	15.4	15.0			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.47	33.76	30	12.45	34.19
10	16.58	33.73	45	8.40	34.29
20	16.30	33.76			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	18	20:40	250			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1023	17.7	17.4			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.47	33.66	100	2.80	34.15
10	17.44	33.65	125	2.20	34.13
20	14.35	34.01	150	1.70	34.14
30	11.92	34.24	200	1.10	34.22
50	5.06	34.24	245	1.00	34.17
75	3.95	34.17			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	18	19:20	380			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1023	16.8	16.8			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.64	33.42	125	2.63	34.14
10	19.13	33.46	150	1.94	34.15
20	13.40	34.11	200	1.33	34.13
30	11.50	34.35	250	1.04	34.15
50	7.45	34.28	300	0.90	34.14
75	4.33	34.20	375	0.70	34.16
100	4.07	34.20			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	18	17:35	810	3	14	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1023	18.4	18.4	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.98	33.52	125	9.94	34.35
10	20.99	33.50	150	4.52	34.18
20	21.30	33.49	200	1.61	34.15
30	21.23	33.57	250	1.39	34.15
50	16.39	33.86	300	1.00	34.16
75	14.33	—	400	0.76	34.36
100	11.44	34.34	500	0.68	34.21

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	18	15:45	1480	4	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1023	21.1	20.7			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.36	33.90	125	14.50	34.48
10	21.73	33.81	150	13.04	34.48
20	22.10	33.83	200	8.08	34.25
30	22.05	33.90	250	3.68	34.18
50	19.70	33.78	300	2.19	34.16
75	15.90	34.26	400	1.12	34.16
100	14.69	34.41	500	0.79	34.17

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	18	13:55	1503	4	28	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NW	3	1023	27.8	25.4			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.39	33.49	125	14.03	34.51
10	20.77	33.38	150	11.59	34.42
20	21.40	33.45	200	7.94	34.26
30	21.54	33.47	250	4.27	34.18
50	21.54	33.46	300	1.97	34.16
75	15.68	34.18	400	1.06	34.17
100	14.80	34.46	500	0.79	34.28

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	18	11:50	1140	4	27	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NW	3	1023	22.0	21.3	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.28	33.58	125	14.17	34.48
10	21.60	33.52	150	12.40	34.48
20	21.61	33.54	200	8.04	34.26
30	21.79	33.58	250	3.74	34.17
50	21.75	33.62	300	1.98	34.17
75	15.22	34.24	400	1.08	34.17
100	14.64	34.42	500	0.73	34.18

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	18	09:50	1850	5	28	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1023	21.1	20.1	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.80	33.28	125	14.14	34.46
10	21.14	33.19	150	12.56	34.47
20	21.16	33.18	200	7.30	34.28
30	21.19	33.21	250	2.86	34.17
50	18.48	33.69	300	1.84	34.20
75	15.62	-	400	0.96	34.19
100	14.60	34.35	500	0.92	34.11

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	18	07:45	2375	4	27	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1023	24.8	23.1	Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.79	33.28	125	13.73	34.51
10	21.03	33.17	150	10.30	34.35
20	21.15	33.31	200	6.81	34.29
30	21.30	33.48	250	4.00	34.19
50	17.82	33.92	300	2.00	34.15
75	15.47	34.44	400	0.83	34.17
100	14.46	34.43	500	0.78	34.17

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	18	05:50	2250			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	3	1023	16.8	16.6			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.57	33.45	125	13.65	34.47
10	21.13	33.36	150	11.03	34.42
20	21.35	33.37	200	5.19	34.21
30	21.39	33.37	250	2.98	34.15
50	17.05	33.91	300	1.59	34.12
75	15.59	34.44	400	1.12	34.15
100	14.38	34.45	500	0.80	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	18	03:40	2470			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1023	16.9	16.7			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.90	33.27	125	13.00	34.47
10	20.65	33.19	150	8.68	34.30
20	21.01	33.25	200	4.10	34.18
30	20.01	33.30	250	2.09	34.15
50	16.50	34.03	300	1.12	34.11
75	15.80	34.45	400	0.92	34.16
100	15.01	34.42	500	0.70	34.16

12월 (December)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	13	11:50	48			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1025	11.5	10.6			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.67	33.81	30	12.15	33.75
10	12.97	33.79	45	11.84	33.99
20	13.03	33.79			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	01:00	250			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	3	1025	11.8	11.2			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.36	33.86	100	4.80	34.05
10	13.26	33.76	125	2.70	33.97
20	12.83	33.71	200	1.86	33.98
30	12.76	33.72	250	1.17	34.00
50	11.95	34.15	245	0.95	33.74
75	7.90	34.11			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	23:50	380			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
W	3	1026	12.2	12.2			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.43	33.93	125	2.90	34.04
10	14.38	33.92	150	1.50	33.99
20	13.40	33.83	200	0.90	34.01
30	13.12	33.81	250	0.76	34.03
50	9.68	34.08	300	0.68	34.03
75	7.29	34.12	375	0.60	—
100	3.85	34.04			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	12	21:50	810			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	3	1026	12.2	11.9			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.98	33.85	125	8.94	34.18
10	15.03	33.67	150	5.75	34.03
20	15.07	33.81	200	1.50	34.00
30	15.10	33.82	250	0.90	34.00
50	15.08	33.82	300	0.76	34.00
75	15.06	33.95	400	0.60	33.86
100	13.39	34.26	500	0.50	33.98

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	12	19:40	1480			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1026	12.2	12.0			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.03	34.71	125	12.13	33.87
10	15.08	34.62	150	9.50	33.85
20	15.05	34.52	200	5.00	33.86
30	15.13	34.44	250	2.31	33.85
50	15.10	34.43	300	1.33	33.85
75	15.10	34.12	400	1.01	33.89
100	14.24	33.99	500	0.74	34.20

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	12	17:45	1503			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1025	12.2	12.0			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.90	34.29	125	14.95	34.21
10	15.10	34.30	150	14.40	34.65
20	15.15	34.30	200	12.92	34.74
30	15.14	34.32	250	10.39	34.51
50	15.12	34.16	300	8.51	34.53
75	15.10	34.31	400	4.50	34.45
100	15.04	34.16	500	2.29	34.36

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	12	15:40	1140	3	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	2	1025	13.2	13.0	As	7	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.70	34.32	125	13.60	34.55
10	15.15	34.12	150	11.55	34.66
20	15.15	34.14	200	8.84	34.54
30	15.22	34.13	250	7.39	34.49
50	15.22	34.25	300	5.65	34.48
75	15.15	34.27	400	2.59	34.45
100	14.89	34.54	500	1.49	34.43

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	12	13:45	1140	3	14	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	3	1026	14.4	14.3	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.52	34.29	125	9.95	-
10	14.95	34.15	150	7.79	34.49
20	14.95	34.16	200	3.95	34.42
30	14.82	34.27	250	2.92	34.23
50	13.30	34.17	300	2.05	34.40
75	12.52	34.28	400	1.32	34.41
100	10.25	34.07	500	0.95	34.57

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	10	20:15	2375			4	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1023	11.9	11.6			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.90	33.89	125	6.90	34.47
10	13.96	34.25	150	5.26	34.42
20	13.94	34.25	200	2.82	34.26
30	13.92	34.25	250	1.37	34.23
50	13.63	34.13	300	1.00	34.24
75	13.43	34.17	400	0.88	34.03
100	10.64	34.54	500	0.86	34.03

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	10	18:15	2250			0	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1023	11.6	11.3			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.86	-	100	7.00	-
10	14.10	-	125	4.60	-
20	14.10	-	150	3.27	-
30	14.07	-	200	1.82	-
50	13.29	-	250	1.10	-
75	12.91	-	300	0.93	-

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	10	16:05	2470	3	14	1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	5	1022	11.4	11.0	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.35	33.83	125	8.16	34.40
10	13.49	34.01	150	4.99	34.26
20	13.48	34.01	200	2.52	33.98
30	13.48	34.06	250	1.69	34.39
50	13.49	34.16	300	1.45	34.27
75	13.45	34.28			
100	13.45	34.19			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
14	10	14:15	1300	3	15	1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1022	14.6	14.2	Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.35	-	100	12.19	-
10	13.28	-	125	8.15	-
20	13.38	-	150	5.16	-
30	13.35	-	200	2.52	-
50	13.32	-	250	1.75	-
75	12.81	-	300	1.21	-

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
15	10	12:15	1314	3	17	1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1023	12.2	12.0	Ci	3	Bc

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.35	33.96	100	7.00	34.28
10	13.78	33.94	125	5.43	34.28
20	13.70	33.92	150	4.50	34.29
30	13.70	34.00	200	1.98	34.29
50	13.62	-	250	1.19	34.24
75	10.92	34.25	300	1.13	34.30

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
16	10	10:10		3	21	1	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1024	13.2	13.0	Ci	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.40	-	100	14.50	-
10	16.46	-	125	9.33	-
20	16.47	-	150	4.80	-
30	16.41	-	200	2.60	-
50	16.40	-	250	1.65	-
75	15.69	-	300	1.13	-

104 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 104

월 (February)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	9	14:05	110	3	21	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	4	1024	2.8	3.1	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.53	34.28	50	8.89	34.00
10	9.61	34.01	75	8.40	33.99
20	9.60	34.21	100	7.40	34.16
30	9.52	34.25			

t. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	9	13:10	220	3	21	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	5	1025	6.1	5.8	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.20	32.63	100	9.75	33.99
10	9.30	34.00	125	9.77	33.85
20	9.40	34.14	150	9.77	33.85
30	9.54	34.39	200	9.56	33.84
50	9.42	34.19	215	4.68	33.93
75	9.75	34.26			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	9	11:35	600	3	21	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1025	5.7	5.6	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.70	34.02	125	8.60	34.29
10	8.85	33.98	150	8.65	34.30
20	8.84	33.88	200	8.60	34.32
30	8.84	34.09	250	4.50	34.10
50	8.85	33.94	300	3.10	34.06
75	8.85	34.25	400	1.80	34.04
100	8.85	34.30	500	0.90	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	9	10:00	1050	3	21	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1025	5.6	5.5	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.63	34.10	125	8.75	34.20
10	8.80	34.03	150	8.68	34.04
20	8.84	34.03	200	7.90	34.06
30	8.83	34.03	250	3.70	34.04
50	8.82	34.01	300	2.54	34.05
75	8.85	34.02	400	1.26	34.05
100	8.85	34.06	500	0.82	34.05

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	9	08:00	720	3	26	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NW	5	1025	8.5	9.2	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.73	34.02	125	9.06	34.04
10	8.83	34.02	150	8.52	34.05
20	8.83	34.01	200	8.16	34.03
30	8.90	34.03	250	7.10	34.04
50	8.90	34.04	300	3.97	34.06
75	8.30	34.02	400	1.60	34.04
100	8.80	34.01	500	0.83	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	9	06:00	2340			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NW	5	1025	4.0	3.6			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.72	33.98	125	8.80	34.01
10	8.82	34.01	150	8.75	33.87
20	8.80	34.08	200	8.62	33.88
30	8.81	34.09	250	8.30	34.05
50	8.85	34.03	300	7.43	34.04
75	8.90	34.01	400	1.72	34.03
100	8.87	34.01	500	0.90	33.90

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10		04:00	1800			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	5	1026	3.9	3.2			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.75	34.03	125	8.70	33.42
10	8.79	34.03	150	8.80	33.95
20	8.84	33.66	200	8.69	34.01
30	8.81	33.26	250	8.12	34.05
50	8.85	33.51	300	5.98	34.11
75	8.85	33.78	400	1.19	34.12
100	8.86	33.51	500	0.84	33.92

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	9	01:50	2325			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1026.5	4.0	3.5			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.78	34.03	125	8.65	34.08
10	8.81	34.05	150	8.70	34.03
20	8.82	33.85	200	7.71	34.04
30	8.85	34.03	250	6.12	34.04
50	8.85	34.00	300	3.34	34.06
75	8.75	—	400	1.20	34.04
100	8.75	34.02	500	0.79	34.11

t. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	21	11:30	110	3	17	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
ection	Force		Dry	Wet	Type	Amount	
NW	6	1023	11.3	9.2	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.30	34.70	50	10.40	34.64
10	12.25	34.76	75	7.41	34.52
20	12.10	34.75	100	1.20	34.72
30	11.67	34.72			

No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	21	10:35	220	3	15	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
ection	Force		Dry	Wet	Type	Amount	
NW	5	1022	9.4	7.8		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.52	34.35	100	6.85	34.35
10	9.45	34.36	125	6.25	34.33
20	9.40	34.37	150	5.28	34.32
30	9.15	34.34	200	4.70	34.30
50	7.32	34.34	215	2.10	34.29
75	7.34	34.36			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	21	09:05	600	3	15	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1021	9.5	8.1	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.52	34.36	125	8.54	34.35
10	9.47	34.36	150	7.78	34.36
20	9.30	34.36	200	5.49	34.34
30	9.10	34.35	250	2.83	34.31
50	9.02	34.36	300	1.92	34.32
75	8.99	34.39	400	0.83	34.31
100	8.54	34.37	500	0.72	34.31

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	21	07:20	1050	3	15	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1019	9.5	8.5			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.51	34.38	125	8.15	34.37
10	9.41	34.40	150	7.71	34.36
20	9.10	34.39	200	5.51	34.33
30	9.08	34.40	250	2.75	34.30
50	9.00	34.33	300	1.55	34.30
75	8.89	34.31	400	0.80	34.30
100	8.43	34.32	500	0.71	34.31

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	21	05:20	720			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1016	10.2	8.8			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.22	34.36	125	8.25	34.39
10	9.30	34.37	150	8.15	34.38
20	9.25	34.37	200	7.72	34.36
30	9.10	34.36	250	6.85	34.36
50	9.05	34.37	300	3.91	34.32
75	8.25	34.37	400	1.23	34.29
100	8.20	34.38	500	0.70	34.30

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	21	03:10	2340			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1013	11.9	10.8			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.29	34.35	125	8.18	34.33
10	9.29	34.34	150	8.13	34.33
20	9.09	34.35	200	8.00	34.36
30	8.98	34.34	250	7.45	34.33
50	8.51	34.35	300	5.08	33.32
75	8.35	34.38	400	1.74	34.32
100	8.30	34.38	500	0.80	34.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	21	01:10	1800			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1011	13.0	11.0			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.54	34.34	125	8.30	34.35
10	9.42	34.35	150	8.20	34.38
20	9.21	34.35	200	8.03	34.35
30	9.10	34.43	250	7.43	34.33
50	8.92	34.38	300	4.00	34.33
75	8.72	34.36	400	1.70	34.26
100	8.44	34.37	500	0.83	34.47

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	20	22:50	2325			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	5	1009	12.2	10.8			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.38	34.37	125	8.21	34.37
10	9.38	34.34	150	7.70	34.35
20	9.57	34.45	200	6.78	34.35
30	9.43	34.46	250	5.10	34.29
50	9.32	34.45	300	2.60	34.29
75	8.99	34.38	400	1.21	34.31
100	8.42	34.38	500	0.73	34.31

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	16	17:45	110	4	13	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1009	19.4	18.5	Ci	8	BC

Z m	T ℃	S ‰	O_2 cc/L	PO_4-P μg-at/L	Z m	T ℃	S ‰	O_2 cc/L	PO_4-P μg-at/L
0	17.40	33.76	5.84	0.11	50	6.74	33.74	5.82	0.86
10	16.62	33.78	5.72	0.14	75	4.21	33.68	5.82	0.91
20	15.74	33.78	5.92	0.11	100	3.39	33.67	5.72	0.98
30	14.18	33.80	6.24	0.43					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	16	16:55	220	4	12	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1010	19.3	18.2	Ci	6	BC

Z m	T ℃	S ‰	O_2 cc/L	PO_4-P μg-at/L	Z m	T ℃	S ‰	O_2 cc/L	PO_4-P μg-at/L
0	16.55	33.77	—	0.65	100	7.06	33.87	6.52	0.36
10	16.45	33.79	5.56	0.11	125	4.02	33.73	5.12	0.91
20	14.25	33.84	6.42	0.18	150	3.17	33.67	5.72	0.16
30	13.78	33.85	6.42	0.27	200	1.89	33.65	—	0.91
50	10.75	33.84	5.32	0.98	215	0.89	33.64	5.64	0.75
75	10.71	33.83	6.12	0.84					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	16	15:20	600	4	13	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1010	21.2	19.5	Cu	2	B

Z m	T ℃	S ‰	O_2 %	PO$_4$-P μg-at/L	Z m	T ℃	S ‰	O_2 %	PO$_4$-P μg-at/L
0	16.59	33.56	5.72	0.16	125	6.36	33.73	6.00	1.00
10	15.78	33.61	6.12	0.23	150	4.81	33.69	5.56	0.98
20	14.02	33.90	5.12	0.41	200	3.89	33.66	5.82	2.45
30	13.77	34.04	4.66	0.39	250	2.24	33.65	6.34	1.25
50	13.44	34.13	4.35	0.54	300	1.16	33.67	5.92	1.27
75	11.35	34.06	4.83	1.14	400	1.00	33.67	5.80	1.18
100	6.81	33.89	6.02	0.57	500	0.81	33.67	5.92	1.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	16	13:50	1050	3	17	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1010	22.5	19.5	Cu	10	C

Z m	T ℃	S ‰	O_2 %	PO$_4$-P μg-at/L	Z m	T ℃	S ‰	O_2 %	PO$_4$-P μg-at/L
0	17.38	33.51	5.62	0.11	125	7.80	33.88	5.82	0.18
10	17.79	33.47	5.52	0.11	150	7.27	33.75	6.70	0.61
20	15.52	33.65	5.92	0.14	200	6.69	33.67	6.12	0.16
30	13.90	33.89	6.12	0.18	250	5.23	33.74	5.12	0.52
50	13.19	33.88	6.42	0.25	300	5.20	33.75	6.72	0.23
75	11.33	33.77	6.52	0.16	400	5.19	33.70	—	0.79
100	9.35	33.75	6.62	0.25	500	0.76	33.69	5.82	0.95

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	16	11:50	720	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1011	20.6	18.5	Cu	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.23	33.78	125	8.24	33.76
10	17.98	33.80	150	7.79	33.75
20	17.42	33.82	200	6.84	33.71
30	14.87	34.01	250	3.56	33.69
50	12.38	33.89	300	1.82	33.69
75	9.79	33.80	400	0.91	33.71
100	8.48	33.76	500	0.62	33.71

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	16	09:50	2340	2	22	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1011	20.7	17.9	Cu	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.68	33.76	125	8.70	33.74
10	18.21	33.75	150	8.36	33.75
20	17.57	33.76	200	7.67	33.74
30	13.98	33.80	250	7.44	33.87
50	11.21	33.76	300	6.69	33.64
75	10.96	33.74	400	2.89	33.81
100	9.72	33.70	500	1.54	33.78

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	16	07:50	1800	3	14	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1011	17.8	16.4	Cu	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.37	33.87	125	8.87	33.76
10	16.08	33.96	150	8.80	33.77
20	14.82	34.07	200	8.31	33.58
30	14.47	34.13	250	7.85	33.75
50	13.40	34.12	300	5.80	33.72
75	13.00	34.14	400	3.90	33.68
100	9.70	33.82	500	1.37	33.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	16	05:40	2325			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1011	16.7	15.9			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.60	33.82	125	8.83	33.76
10	17.75	33.85	150	8.12	33.74
20	17.80	33.85	200	8.02	33.76
30	15.00	34.04	250	7.14	33.74
50	13.65	34.10	300	5.24	33.70
75	—	34.01	400	1.60	33.67
100	12.10	33.85	500	0.91	33.67

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	16	03:40	1440			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	6	1011	16.7	15.9			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.25	33.82	125	9.18	33.78
10	17.82	33.84	150	8.75	33.78
20	15.89	33.86	200	8.01	33.75
30	14.67	33.89	250	5.20	33.74
50	13.32	34.04	300	2.62	33.70
75	10.95	33.91	400	1.15	33.67
100	10.80	33.78	500	0.70	33.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	16	01:30	2010			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1011	16.5	15.9			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.20	33.72	125	7.78	33.76
10	17.10	33.73	150	6.65	33.72
20	15.54	33.83	200	3.50	33.67
30	14.51	33.95	250	2.34	33.66
50	12.50	33.99	300	1.67	33.67
75	11.40	33.94	400	0.92	33.66
100	7.99	33.77	500	0.70	33.68

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	03:55	110			1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	2	1000	20.3		As	8	C

Z m	T ℃	S ‰	O_2 %	PO$_4$-P μg-at/ℓ	Z m	T ℃	S ‰	O_2 %	PO$_4$-P μg-at/ℓ
0	18.19	—	5.23	0.11	50	10.26	34.34	4.63	0.79
10	14.41	33.94	4.60	0.14	75	5.98	34.06	5.98	0.73
20	13.95	34.46	4.20	0.20	100	4.45	34.02	4.45	0.95
30	13.17	34.44	4.22	—					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	02:25	220			1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	2	1000	20.3		As	6	BC

Z m	T ℃	S ‰	O_2 %	PO$_4$-P μg-at/ℓ	Z m	T ℃	S ‰	O_2 %	PO$_4$-P μg-at/ℓ
0	18.57	33.75	4.73	1.02	100	7.72	34.10	5.77	0.64
10	16.52	33.86	5.44	0.18	125	6.23	34.01	5.74	0.70
20	14.12	34.14	4.67	0.30	150	5.04	34.06	5.63	0.77
30	14.06	33.77	4.23	0.43	200	2.74	33.98	5.73	0.91
50	13.72	34.43	4.23	—	215	1.83	33.94	6.13	—
75	11.48	34.11	4.82	0.59					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	23:50	600			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1000	21.8		As	10	C

Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/L	Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/L
0	18.65	33.80	5.33	0.07	125	5.87	34.06	5.83	—
10	14.47	34.08	4.82	0.14	150	5.32	34.04	3.72	0.75
20	14.10	34.30	4.04	0.39	200	4.15	33.98	5.65	1.09
30	14.11	34.49	4.23	0.54	250	2.26	33.99	5.83	—
50	12.32	34.46	3.56	0.77	300	1.22	33.99	6.23	—
75	7.95	34.12	4.16	0.54	400	0.80	34.03	5.59	1.04
100	6.22	34.08	5.52	—	500	0.77	34.03	5.73	1.00

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	20:00	1050			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1000	21.5		As	10	C

Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/L	Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/L
0	18.61	33.75	4.43	0.04	125	6.32	34.06	5.32	0.39
10	17.74	33.77	5.74	—	150	5.95	34.05	5.53	0.48
20	15.47	33.92	5.21	0.18	200	4.17	34.16	5.92	0.52
30	14.09	34.33	4.64	0.25	250	3.10	33.99	5.97	0.54
50	13.93	34.33	4.26	—	300	1.60	34.03	5.35	0.84
75	9.55	34.21	5.54	0.30	400	1.06	34.05	5.73	0.93
100	6.40	34.17	5.79	0.34	500	0.76	34.06	5.67	1.23

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	05:00	110	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1005	22.7	23.3	As	7	BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ
0	19.72	33.76	5.65	0.18	50	7.69	34.15	5.31	0.91
10	15.95	34.11	6.11	0.36	75	4.78	34.05	5.59	0.98
20	13.42	34.29	6.33	0.45	107	3.12	34.01	5.61	1.27
30	12.21	34.28	4.89	1.54					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	03:45	200			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1005	23.0	22.4			BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ
0	20.78	33.45	5.21	0.23	75	4.47	34.11	5.31	1.32
10	14.50	33.98	4.91	0.68	100	3.57	34.05	5.49	3.75
20	12.25	34.25	4.30	0.95	125	2.48	34.04	5.53	0.91
30	11.15	34.25	4.22	1.09	150	1.41	33.98	5.73	1.14
50	5.40	34.19	4.95	1.07	195	1.13	33.96	6.01	1.59

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	13	01:50	600			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SW	4	1005	23.4	23.6			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.30	32.68	125	6.49	34.07
10	16.10	33.66	150	4.29	34.00
20	15.52	34.07	200	3.22	34.01
30	13.83	34.24	250	2.19	34.00
50	12.89	34.28	300	1.12	33.99
75	9.85	34.19	400	0.77	34.00
100	6.79	34.07	500	0.62	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	13	00:00	1050			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	4	1001	23.5	24.5			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.80	32.64	125	7.47	34.07
10	17.90	33.11	150	5.10	34.03
20	15.40	33.84	200	2.80	33.98
30	13.90	34.17	250	1.59	33.99
50	13.41	34.30	300	1.20	34.02
75	11.20	34.25	400	1.04	34.03
100	8.45	34.14	500	0.65	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	12	22:00	720			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1001	23.1	24.0			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.75	34.00	125	5.78	34.05
10	24.60	33.99	150	4.47	34.03
20	23.89	34.00	200	1.90	33.97
30	18.78	34.02	250	1.44	34.02
50	16.64	34.04	300	1.10	34.01
75	13.10	34.03	400	1.00	34.03
100	7.65	34.01	500	0.68	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	12	20:00	2340			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1001	23.8	23.8			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.80	32.79	125	9.49	34.13
10	24.69	33.56	150	5.00	34.05
20	22.49	33.45	200	2.50	34.01
30	16.30	34.00	250	1.62	34.02
50	14.71	34.33	300	1.09	34.03
75	13.14	34.34	400	0.82	34.04
100	9.98	34.21	500	0.61	34.06

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	12	18:00	1800	2	24	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1001	23.8	23.1	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.25	33.68	125	7.39	34.10
10	24.24	33.65	150	6.13	34.06
20	23.20	33.75	200	2.84	34.03
30	18.42	34.14	250	1.69	34.03
50	14.40	34.31	300	1.50	34.04
75	12.60	34.27	400	0.62	34.05
100	8.60	34.16	500	0.51	34.10

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	12	16:00	2325	2	22	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N	5	1001	24.5	23.6	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.78	33.76	125	8.32	34.20
10	23.90	33.75	150	7.80	34.05
20	23.00	33.61	200	3.46	34.04
30	17.65	33.90	250	1.88	34.04
50	15.44	34.36	300	1.15	34.04
75	12.22	34.36	400	0.70	34.06
100	9.00	-	500	0.60	34.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	12	14:00	1440	2	21	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1001	25.2	24.2	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.80	33.78	125	7.50	34.12
10	23.90	33.72	150	5.61	34.07
20	20.70	33.98	200	3.52	34.02
30	15.70	34.19	250	2.00	33.99
50	13.00	34.33	300	1.42	—
75	11.65	34.29	400	0.82	—
100	8.00	34.17	500	0.65	34.03

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	12	11:50	2010	2	20	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1000	26.0	24.9	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.85	33.35	125	7.24	34.11
10	23.57	33.24	150	6.77	34.03
20	19.39	33.94	200	3.00	34.01
30	16.58	34.18	250	1.60	34.03
50	15.62	34.30	300	1.10	34.03
75	12.43	34.35	400	0.73	34.05
100	8.51	34.20	500	0.53	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	17	08:15	110	5	14	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1025	17.0	18.8		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.96	33.52	50	4.78	34.18
10	17.02	—	75	3.04	34.17
20	15.75	33.71	105	2.00	34.15
30	12.57	34.10			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	17	08:55	220	5	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1025	17.6				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.92	33.59	100	4.45	34.21
10	16.88	33.58	125	2.21	34.14
20	12.20	34.09	150	1.59	34.12
30	8.35	34.28	200	1.00	34.14
50	7.53	33.82	215	0.80	34.16
75	6.98	34.21			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	17	10:30	600	4	20	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1025	19.5	20.2	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.80	33.52	125	2.70	34.15
10	20.91	33.47	150	1.90	34.18
20	15.42	34.12	200	1.70	34.14
30	13.05	34.23	250	1.65	34.14
50	10.50	34.16	300	0.90	34.15
75	5.00	34.14	400	0.73	34.16
100	3.20	34.17	500	0.70	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	17	12:00	1050	4	20	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1024	18.2	18.4	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.27	33.49	125	9.43	34.35
10	21.60	33.41	150	4.50	34.25
20	21.60	33.41	200	1.82	34.16
30	19.40	33.66	250	1.41	34.18
50	14.22	33.97	300	1.02	34.14
75	13.92	34.38	400	0.77	34.17
100	9.70	34.34	500	0.63	34.17

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	17	14:00	720	3	20	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N	5	1023	18.8	18.7	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.10	33.90	125	14.70	34.50
10	22.36	33.88	150	11.83	34.40
20	22.36	33.89	200	4.24	34.19
30	20.30	33.92	250	2.29	34.11
50	17.55	34.50	300	1.64	34.24
75	15.70	34.39	400	0.97	34.17
100	14.90	34.41	500	0.74	34.21

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	17	15:55	2340	3	21	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N	5	1023	19.0	18.4		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.24	33.36	125	13.85	34.36
10	21.25	33.28	150	12.82	34.45
20	21.29	33.29	200	7.10	34.26
30	21.59	33.45	250	3.86	34.20
50	21.21	33.85	300	2.20	34.16
75	15.84	34.01	400	0.95	34.17
100	14.50	34.27	500	0.72	34.17

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	17	18:05	1800			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N	5	1023	18.6	18.4			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.00	33.53	125	14.16	34.49
10	21.27	33.47	150	11.20	34.39
20	21.40	33.46	200	8.30	34.25
30	21.50	33.61	250	7.00	34.22
50	21.50	33.53	300	4.89	34.17
75	16.70	34.30	400	1.40	34.13
100	14.25	34.35	500	0.98	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	17	20:05	2325			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1023	18.0	17.8			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.05	33.44	125	13.90	34.47
10	21.30	33.36	150	11.40	34.39
20	21.41	33.36	200	8.50	34.23
30	21.44	33.36	250	7.65	34.21
50	21.92	33.57	300	5.40	34.17
75	15.75	34.17	400	1.62	34.12
100	14.75	34.35	500	1.15	34.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	17	22:10	1440			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1023	17.7	17.5			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.32	33.37	125	13.82	34.44
10	21.04	33.31	150	11.53	34.41
20	21.28	33.31	200	7.40	34.27
30	21.33	33.31	250	4.53	34.18
50	20.73	33.59	300	2.16	34.14
75	15.47	34.20	400	1.14	34.14
100	14.60	34.40	500	0.84	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	18	00:10	2010			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NW	5	1023	17.8	17.6			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.56	33.40	125	14.13	34.45
10	21.15	33.34	150	10.80	34.36
20	21.35	33.33	200	5.48	34.16
30	21.38	33.33	250	2.65	34.14
50	18.45	33.95	300	1.29	34.11
75	15.65	34.21	400	0.95	34.17
100	14.69	34.37	500	0.73	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
C 4	6	23:15	110			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1024	10.8	10.2			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.00	33.76	50	13.00	34.06
10	13.39	33.70	75	8.95	34.13
20	13.30	33.71	105	3.60	34.05
30	13.05	33.73			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	6	23:55	220			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1024	11.4	11.0			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.14	33.74	100	10.60	33.84
10	15.18	33.66	125	6.65	34.09
20	15.27	33.68	150	3.80	34.07
30	15.25	33.68	200	2.01	33.99
50	15.21	34.19	215	1.99	33.94
75	15.16	34.38			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	7	01:20	600			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NW	6	1024	11.6	11.5			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.34	33.79	125	11.10	34.20
10	15.50	33.79	150	6.52	34.08
20	15.49	33.80	200	2.23	33.96
30	15.31	33.81	250	1.38	34.00
50	15.10	33.80	300	0.98	34.03
75	14.07	33.81	400	0.79	33.99
100	12.01	33.82	500	0.57	34.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	7	02:45	1050			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	4	1023	11.4	10.8			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.39	33.77	125	13.69	34.25
10	15.45	33.77	150	9.99	34.19
20	15.45	33.77	200	8.28	34.14
30	15.45	33.77	250	5.99	34.05
50	15.43	33.77	300	2.72	33.99
75	15.36	33.78	400	1.55	33.99
100	15.15	34.13	500	1.12	34.03

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	9	13:00	720	3	19	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1019	10.6	10.8	Cu	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.03	33.87	125	14.50	34.28
10	15.25	33.87	150	14.50	34.13
20	15.25	33.87	200	11.49	34.11
30	15.25	33.89	250	9.28	34.10
50	15.24	33.97	300	7.90	33.92
75	15.24	34.23	400	4.35	34.01
100	14.48	34.15	500	1.59	33.88

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	9	16:00	2340	3	17	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1019	9.8	9.4	Cu	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.39	33.88	125	13.48	34.33
10	15.32	33.87	150	10.70	34.29
20	15.21	33.87	200	8.50	34.11
30	15.21	33.87	250	8.02	34.11
50	15.21	33.85	300	6.65	34.08
75	15.20	34.24	400	2.29	34.01
100	14.89	34.34	500	1.36	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	9	08:10	1800			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1019	13.9	13.5			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.85	33.84	125	12.80	34.32
10	15.00	33.83	150	9.60	34.18
20	15.00	33.83	200	6.80	34.07
30	15.00	33.81	250	4.40	34.03
50	15.00	33.82	300	1.90	34.03
75	15.00	33.84	400	1.23	34.00
100	14.30	34.26	500	1.02	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	9	20:20	2325			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1021	13.7	13.1			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.79	33.87	125	11.57	34.22
10	14.85	33.84	150	7.40	34.07
20	14.88	33.86	200	3.83	33.97
30	14.87	33.85	250	1.93	33.97
50	14.80	33.78	300	1.26	33.96
75	14.80	33.81	400	0.98	33.98
100	14.23	34.19	500	0.82	33.98

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
12	9	22:30	1440			1	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1022	9.0	8.5			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.20	—	100	9.70	—
10	14.20	—	125	5.50	—
20	14.20	—	150	4.40	—
30	14.20	—	200	1.40	—
50	14.10	—	250	1.10	—
75	13.80	—			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
13	10	00:10	2010			1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1021	9.2	8.8			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.80	34.20	100	6.35	33.99
10	14.32	33.80	125	4.83	34.00
20	14.25	33.80	150	3.59	33.97
30	14.10	33.77	200	2.49	33.95
50	14.10	33.78	250	1.41	33.96
75	13.80	33.77	300	1.19	33.98

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
14	10	02:20	1620			1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1021	9.0	8.8			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.70	—	100	6.50	—
10	13.70	—	125	4.00	—
20	13.70	—	150	2.50	—
30	13.60	—	200	1.00	—
50	13.60	—	250	0.50	—
75	11.50	—			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
15	10	04:00	1335			1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1021	9.4	8.8			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.90	33.84	100	11.29	34.11
10	14.19	33.82	125	8.59	34.05
20	14.49	33.82	150	7.83	34.02
30	14.35	33.82	200	3.35	33.95
50	14.35	33.81	250	1.69	33.94
75	14.28	33.80	300	0.85	34.08

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
16	10	06:15	285			1	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1021	9.8	9.6			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.50	—	75	14.99	—
10	15.98	—	100	13.08	—
20	16.04	—	125	7.39	—
30	15.20	—	150	5.42	—
50	15.00	—	200	3.04	—

103 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA. LINE 103

2월 (February) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	9	18:00	110			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1022	5.7	5.3	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.40	34.38	50	10.20	34.12
10	10.60	33.98	75	9.59	34.19
20	10.69	33.88	100	9.40	34.32
30	10.63	34.34			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	9	19:00	205			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1022	5.5	5.1			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.83	34.10	75	8.45	33.92
10	8.90	34.06	100	8.99	34.05
20	8.92	34.06	125	8.83	34.11
30	8.69	34.05	150	7.08	34.09
50	8.86	33.96	200	4.99	34.09

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	9	20:40	235			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1022	5.4	5.1			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.60	33.72	100	8.57	34.08
10	8.63	33.75	125	8.54	34.03
20	8.67	34.01	150	8.50	34.19
30	8.67	34.03	200	7.18	33.92
50	8.60	34.04	230	3.15	34.04
75	8.90	34.10			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	9	22:10	850			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1022	5.2	4.9			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.65	34.05	125	8.40	34.06
10	8.65	—	150	8.30	34.06
20	8.71	34.09	200	7.93	34.02
30	8.73	34.01	250	4.83	34.07
50	8.75	34.08	300	2.43	34.04
75	8.75	34.02	400	1.10	34.06
100	8.53	34.02	500	0.75	34.06

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	10	00:30	198			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1022	5.4	5.1			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.53	33.27	75	8.67	34.02
10	8.60	33.85	100	8.61	34.01
20	8.60	34.02	125	8.61	34.02
30	8.46	34.03	150	8.60	34.04
50	8.65	34.03	195	8.60	34.03

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	10	02:40	2150			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1021	5.4	5.2			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.56	34.04	125	8.50	34.02
10	8.60	34.03	150	8.51	34.05
20	8.55	34.02	200	8.67	34.02
30	8.60	34.02	250	8.60	34.05
50	8.64	34.03	300	8.30	—
75	8.62	34.02	400	5.30	33.91
100	—	34.02	500	3.03	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	10	05:00	1800			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	4	1019	5.4	5.3			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.58	34.01	125	8.35	33.88
10	8.60	33.94	150	8.30	33.86
20	8.59	34.14	200	8.20	33.94
30	8.62	33.92	250	5.52	34.06
50	8.60	—	300	2.98	34.05
75	8.62	33.92	400	1.13	34.06
100	8.48	33.91	500	0.69	34.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	10	07:00	2100	3	20	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1019	5.0	4.9	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.68	34.03	125	8.53	34.06
10	8.70	34.01	150	8.87	34.07
20	8.69	34.04	200	4.57	34.07
30	8.70	33.97	250	2.09	34.06
50	8.71	34.01	300	1.06	33.91
75	8.68	34.02	400	0.68	33.95
100	8.70	34.04	500	0.49	34.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	22	13:40	110	4	9	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
S	5	1016	13.5	13.3		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.49	34.79	50	9.78	34.52
10	13.01	34.78	75	9.20	34.60
20	11.85	34.73	100	3.12	34.28
30	10.74	34.62			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	22	14:35	205	3	13	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
S	5	1015	16.2	16.0		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.98	34.42	75	8.70	34.40
10	9.83	34.42	100	8.29	34.40
20	9.38	34.40	125	7.29	34.39
30	9.04	34.44	150	5.59	34.34
50	8.80	34.42	200	3.32	34.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	22	16:15	235	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	5	1016	13.4	13.0	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.17	34.58	100	8.59	34.44
10	11.10	34.62	125	8.09	34.41
20	10.09	34.55	150	7.51	34.37
30	9.45	34.48	200	4.71	34.32
50	9.30	34.33	230	3.60	34.29
75	9.10	34.43			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	22	17:45	850	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	5	1016	12.4	12.0	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.00	34.51	125	7.19	—
10	9.99	34.49	150	6.82	—
20	9.80	34.44	200	3.52	—
30	9.99	34.47	250	2.17	34.30
50	9.50	34.46	300	1.10	34.35
75	7.72	34.37	400	0.69	34.32
100	7.70	34.42	500	0.55	34.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	22	20:00	190			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	5	1016	12.1	12.0		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.52	34.36	75	7.62	34.33
10	9.50	34.36	100	6.41	34.32
20	9.20	34.37	125	5.50	34.32
30	9.10	34.37	150	4.42	34.30
50	8.47	34.34	185	2.42	34.30

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	22	21:55	2150			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	5	1018	12.1	12.0			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.20	34.45	125	7.40	34.33
10	10.19	34.47	150	6.21	34.32
20	10.04	34.48	200	4.24	34.31
30	9.87	34.65	250	2.54	34.31
50	9.70	34.50	300	1.45	34.31
75	7.97	34.40	400	0.78	34.30
100	7.49	34.36	500	0.67	34.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	23	00:10	1800			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1018	12.8	12.3			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.19	34.43	125	7.35	34.34
10	10.02	34.44	150	5.70	34.34
20	9.68	34.42	200	2.90	34.30
30	9.45	34.43	250	1.69	34.39
50	8.50	34.40	300	1.01	34.29
75	8.10	34.39	400	0.62	34.40
100	7.50	34.35	500	0.49	34.31

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	23	02:10	2100			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1018	11.2	11.9			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.30	34.40	125	7.90	34.36
10	10.23	34.41	150	6.88	34.35
20	10.03	34.40	200	3.61	34.37
30	9.51	34.41	250	2.18	34.37
50	8.92	34.40	300	1.27	34.28
75	8.43	34.40	400	0.70	34.29
100	7.98	34.36	500	0.40	34.33

6월 (June)　　조사선　지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	15	07:50	110	4	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	4	1012	17.2	17.1	As	10	C

Z m	T ℃	S ‰	O_2 %	PO_4-P μgat/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μgat/ℓ
0	17.06	33.78	5.62	0.07	50	7.60	33.79	6.00	0.52
10	13.95	33.78	5.32	0.18	75	6.12	33.75	6.00	0.57
20	11.99	33.98	4.89	0.32	100	4.11	33.71	5.82	0.79
30	10.40	34.02	4.79	0.75					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	15	08:50	205	3	11	6	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	8	1012	18.9	18.4	As	10	C

Z m	T ℃	S ‰	O_2 %	PO_4 P μgat/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μgat/ℓ
0	16.61	33.71	4.41	0.09	75	6.80	33.73	5.92	0.61
10	16.45	33.71	5.94	0.11	100	5.05	33.68	5.60	1.02
20	14.41	33.82	6.02	0.27	125	3.01	33.67	5.72	1.07
30	14.20	33.86	5.22	0.34	150	2.29	33.68	5.82	0.91
50	10.43	33.94	4.91	0.91	200	1.63	33.71	5.32	1.41

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	15	10:30	235	3	16	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1013	21.2	22.2	As	10	C

Z m	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	17.30	33.45	5.13	100	9.71	33.98	5.22
10	16.10	33.57	—	125	6.17	33.67	5.83
20	15.40	33.45	—	150	4.55	33.67	5.83
30	15.20	33.68	4.69	200	2.45	34.04	4.44
50	14.59	34.11	—	250	1.31	34.23	4.68
75	13.95	34.17	5.03				

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	15	12:00	850	3	19	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1013	21.7	22.2	As	10	C

Z m	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	18.99	33.29	5.03	125	8.15	33.77	5.63
10	17.50	33.67	6.09	150	6.71	33.73	5.55
20	16.83	34.11	5.54	200	3.85	33.67	5.47
30	15.15	33.98	—	250	2.35	33.66	5.40
50	14.18	34.19	4.46	300	1.45	33.66	5.66
75	13.87	34.24	4.32	400	1.08	33.70	6.03
100	10.25	33.84	—	500	0.77	33.68	5.44

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	15	14:20	198	3	20	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	3	1011	22.4	22.5	Cu	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.70	33.76	75	10.32	—
10	18.69	33.78	100	8.86	33.77
20	18.02	33.90	125	8.43	33.78
30	17.95	33.75	150	7.95	33.75
50	14.45	33.89	195	6.98	33.73

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	15	16:20	2150	3	21	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	4	1011	25.3	21.2	Cu	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.03	33.74	125	8.43	33.77
10	17.60	33.80	150	8.05	33.77
20	15.19	34.06	200	7.22	—
30	13.45	33.97	250	4.79	33.71
50	11.40	33.82	300	2.85	33.67
75	9.79	33.79	400	1.09	33.69
100	8.59	33.79	500	0.83	33.69

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	15	18:30	1800	3	19	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1011	22.1	19.4	Cu	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.55	33.70	125	8.65	33.77
10	17.95	33.70	150	8.50	33.77
20	15.12	33.88	200	6.83	33.74
30	13.62	33.96	250	3.80	33.71
50	11.55	33.85	300	2.19	33.66
75	9.80	33.85	400	1.07	33.67
100	9.40	33.77	500	0.69	33.68

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	15	20:30	2100			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1011	22.5	16.4			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.91	33.69	125	7.08	33.73
10	[illegible]	33.69	150	6.58	33.72
20	17.12	33.74	200	6.09	33.68
30	15.30	33.81	250	4.38	33.73
50	12.23	33.81	300	2.62	33.69
75	9.87	33.73	400	1.34	33.68
100	7.07	33.76	500	0.65	33.69

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	08:50	96			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	3	1002	23.5		As	10	C

Z m	T ℃	S ‰	O_2 %	PO_4-P μgat/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μgat/ℓ
0	21.66	33.57	5.08	0.11	50	10.87	34.31	5.04	0.61
10	15.35	34.11	4.73	0.09	75	8.59	34.26	4.83	0.75
20	14.25	34.45	4.12	0.32	90	5.40	34.02	5.46	0.95
30	13.13	34.45	4.22	0.36					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	10:45	205			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	3	1002	24.2		As	10	C

Z m	T ℃	S ‰	O_2 %	PO_4-P μgat/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μgat/ℓ
0	20.95	33.51	4.91	0.07	75	8.85	34.14	5.84	0.64
10	17.41	33.84	5.74	0.14	100	7.38	34.10	5.83	0.77
20	14.64	34.13	4.73	0.41	125	5.64	34.04	5.52	1.07
30	14.30	34.14	5.03	0.30	150	4.04	34.02	5.67	1.00
50	12.97	34.35	4.32	0.45	200	2.26	34.00	5.52	1.38

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	11	12:20	230			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1002	24.3		As	10	C

Z m	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	21.47	33.35	4.91	100	10.12	34.32	4.63
10	19.74	33.58	5.12	125	7.28	34.12	5.93
20	15.55	33.99	5.54	150	5.07	34.08	5.72
30	13.89	34.29	4.63	200	4.37	34.05	5.77
50	12.76	34.29	4.42	225	3.52	34.02	5.83
75	11.76	34.39	3.92				

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	11	13:50	850			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1002	25.2		As	10	C

Z m	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	21.19	33.49	5.04	125	6.54	—	6.07
10	18.02	33.57	5.27	150	5.64	—	5.92
20	15.69	33.91	4.93	200	2.92	—	6.02
30	14.31	34.37	4.93	250	1.67	—	5.83
50	13.63	34.47	4.16	300	1.20	—	5.73
75	8.45	34.13	6.07	400	0.75	—	5.28
100	7.31	34.08	5.87	500	0.58	—	5.23

8월 (August)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	18:45	110			0	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	3	1008	24.0	23.4			BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/L	Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/L
0	23.78	33.66	5.21	1.02	50	7.67	34.16	4.81	1.02
10	14.59	34.18	6.11	0.50	75	5.60	34.09	5.31	1.07
20	13.30	34.33	4.71	0.68	105	3.45	34.01	5.61	1.18
30	11.29	—	4.24	1.04					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	19:30	205			0	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	2	1008	23.1	23.0			BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/L	Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/L
0	21.30	33.54	5.01	0.57	75	5.21	34.07	5.41	1.09
10	16.49	34.05	6.11	0.41	100	3.75	34.03	5.47	1.20
20	13.68	34.33	4.71	0.75	125	2.44	34.01	5.61	1.45
30	12.09	34.31	4.35	1.07	150	2.29	33.98	5.51	1.04
50	8.88	34.22	4.63	1.27	200	1.79	34.01	—	1.93

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	13	20:50	235			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1008	20.4	19.6			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.00	33.68	100	3.18	34.00
10	15.60	34.01	125	2.03	34.00
20	14.64	34.14	150	1.78	33.99
30	9.60	34.20	200	1.20	34.00
50	9.32	34.12	230	01.70	—
75	3.90	34.03			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	13	22:15	850			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1008	23.2	23.0			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.23	32.48	125	8.27	34.21
10	1.95	32.45	150	6.60	34.15
20	17.25	33.42	200	2.99	34.01
30	14.95	33.82	250	2.23	34.00
50	13.73	34.25	300	1.48	33.98
75	10.70	34.32	400	1.15	33.79
100	9.20	34.16	500	0.98	33.96

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	14	00:30	198			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	5	1008	23.9	23.4			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.63	32.22	75	16.68	34.23
10	26.03	32.13	100	14.37	34.37
20	25.09	32.75	125	12.86	34.39
30	20.76	33.68	150	6.21	34.12
50	17.78	34.03	195	6.00	33.79

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	14	02:20	2150			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	4	1010	23.6	22.2			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.35	32.60	125	14.29	34.38
10	24.01	32.66	150	8.62	34.20
20	25.78	32.80	200	3.83	34.08
30	21.15	33.54	250	2.23	34.02
50	18.01	33.90	300	2.01	34.01
75	15.89	34.10	400	1.15	34.04
100	14.85	34.27	500	0.82	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	14	04:15	1800			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1010	23.4	22.5			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.75	32.73	125	14.75	34.38
10	25.39	32.65	150	13.23	34.33
20	25.79	33.01	200	6.37	34.19
30	22.50	33.50	250	3.43	34.04
50	18.81	33.99	300	1.56	34.04
75	16.25	33.91	400	0.92	34.05
100	15.19	34.21	500	0.85	34.06

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	14	06:10	2100	3	22		1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1010	24.8	23.4	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.20	32.28	125	14.40	34.35
10	26.80	32.12	150	14.80	34.46
20	26.43	32.86	200	14.24	—
30	23.44	33.52	250	13.85	34.34
50	17.78	34.08	300	12.54	34.33
75	15.74	34.05	400	6.79	34.05
100	14.92	34.31	500	1.47	34.03

0월 (October)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	14	17:05	110	4	14	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	4	1017	21.8	21.3	Ci	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.63	33.29	50	4.71	34.19
10	18.02	33.35	75	2.45	34.13
20	10.50	34.18	105	1.94	34.14
30	7.12	34.25			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	14	16:15	205	4	14	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	4	1020	22.4	22.1	Ci	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.98	33.34	75	5.15	34.22
10	17.72	33.47	100	3.50	34.18
20	16.95	34.11	125	2.30	34.16
30	15.69	33.73	150	1.52	34.18
50	10.50	34.24	200	1.19	34.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	14	14:55	235	4	11	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1020	21.0	20.2	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.13	33.47	100	4.19	34.16
10	19.02	33.41	125	3.23	34.16
20	13.70	34.06	150	2.50	34.13
30	8.98	34.24	200	1.85	34.13
50	8.60	34.24	230	1.45	34.13
75	5.49	34.18			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	14	13:35	850	4	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1021	23.3	23.5		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.30	33.71	125	14.20	34.41
10	22.07	33.71	150	13.07	34.41
20	22.10	33.71	200	10.02	34.33
30	21.03	33.48	250	6.89	34.24
50	18.40	33.60	300	5.29	34.20
75	14.82	33.38	400	3.16	34.22
100	14.56	34.06	500	1.77	34.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	14	11:40	198	4	24	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	3	1020	23.7	23.7		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.60	33.92	75	16.70	34.07
10	22.93	33.85	100	14.83	34.05
20	22.90	33.86	125	13.61	34.42
30	22.95	33.83	150	10.74	34.36
50	20.05	33.50	195	2.32	34.11

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	14	09:40	2150	4	25	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	2	1021	23.9	23.5			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.45	33.34	125	14.21	34.47
10	21.67	33.26	150	11.86	34.40
20	21.65	33.25	200	6.22	—
30	21.65	33.27	250	3.13	34.15
50	18.25	33.22	300	1.81	34.13
75	16.04	34.36	400	0.90	34.15
100	14.69	—	500	0.71	34.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	14	07:50	1800	4	18	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	2	1021	21.5	21.3	Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.04	33.41	125	13.13	34.44
10	21.26	33.33	150	11.23	34.39
20	21.30	33.33	200	5.87	34.20
30	21.30	33.38	250	3.50	34.13
50	21.30	33.34	300	2.10	34.13
75	14.40	33.95	400	0.95	34.13
100	13.96	34.25	500	0.67	34.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	14	06:00	2100			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1021	18.5	17.9			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.70	33.63	125	13.42	34.42
10	21.78	33.59	150	10.28	34.30
20	22.09	33.58	200	7.89	34.21
30	22.18	33.57	250	5.65	34.17
50	22.15	33.58	300	2.58	34.13
75	15.60	34.16	400	1.00	34.13
100	14.28	34.29	500	0.79	34.15

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	6	19:20	110			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1024	11.6	11.0			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.98	33.89	50	14.49	34.32
10	15.05	33.89	75	11.32	34.18
20	15.70	34.28	105	9.00	34.19
30	15.59	34.33			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	6	18:30	205			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1024	11.2	10.4			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.40	33.81	75	15.27	33.84
10	15.56	33.76	100	15.25	34.27
20	15.56	33.76	125	14.45	34.32
30	15.32	33.78	150	10.25	34.32
50	15.31	33.83	200	9.21	—

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	6	17:05	235	3	13	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1024	12.8	11.8			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.31	33.82	100	14.40	33.81
10	15.60	33.83	125	14.10	34.20
20	15.71	–	150	11.25	34.32
30	15.60	33.80	200	8.19	34.24
50	15.30	33.79	230	4.56	34.18
75	14.61	33.71			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	6	15:30	850	3	16	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1024	13.2.	12.4			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.80	34.20	125	15.41	33.94
10	15.95	34.37	150	15.41	33.89
20	16.00	34.01	200	14.29	33.89
30	16.00	34.14	250	12.69	33.88
50	16.00	34.19	300	10.29	–
75	15.98	34.13	400	9.19	33.91
100	15.98	34.10	500	3.21	34.00

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	6	13:35	198	3	20	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	6	1025	16.4	16.2	Cu	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.15	33.68	75	15.25	33.93
10	15.28	33.72	100	13.81	34.22
20	15.28	33.72	125	11.82	34.21
30	15.28	33.72	150	8.52	34.09
50	15.25	33.75	195	4.29	33.97

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	6	11:30	2150	3	21	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	6	1025	16.7	16.0	Cu	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.50	33.84	125	14.77	34.17
10	15.63	33.78	150	13.70	34.24
20	15.61	33.79	200	9.52	34.16
30	15.60	33.79	250	6.12	34.04
50	15.60	33.78	300	3.97	33.98
75	15.60	33.78	400	1.48	33.95
100	15.53	33.77	500	0.98	33.95

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	6	09:35	1800	3	20	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1024	12.8	12.1	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.44	33.80	125	14.37	34.22
10	15.72	33.78	150	12.80	34.27
20	15.70	33.79	200	8.84	34.09
30	15.68	33.76	250	5.55	34.00
50	15.67	33.78	300	4.65	33.98
75	15.63	33.80	400	1.24	33.95
100	15.55	33.93	500	0.86	33.98

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	6	07:30	2100			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1023	11.6	11.3	As	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.22	33.78	125	14.40	34.14
10	15.72	33.77	150	11.96	34.22
20	15.70	33.77	200	7.73	34.09
30	15.67	33.79	250	4.94	34.02
50	15.65	33.81	300	3.33	33.99
75	15.60	33.82	400	1.23	33.99
100	15.04	33.80	500	0.83	33.99

102 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 102

2월 (February) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	00:40	52			5	1

Wind		Baro	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NW	6	1020	3.3	2.6			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.40	34.49	30	11.55	34.20
10	11.49	34.47	50	11.59	34.46
20	11.58	34.48			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	10	23:25	210			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NW	4	1019	7.0	5.7			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.49	34.26	75	10.58	34.31
10	11.59	34.39	100	9.87	34.22
20	11.64	34.42	125	9.72	34.20
30	11.49	34.49	150	7.52	34.13
50	11.08	34.32	200	5.42	34.43

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	22:10	700			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1019	6.8	5.8			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.28	34.18	125	9.09	34.12
10	9.37	34.05	150	9.05	34.13
20	9.43	34.02	200	9.09	34.10
30	9.45	34.21	250	6.09	34.13
50	9.44	34.14	300	3.29	34.10
75	9.45	34.16	400	2.25	34.04
100	9 34	—	500	1.12	33.94

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	20:10	1390			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1019	8.9	8.6			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.61	33.34	125	9.09	34.13
10	8.79	33.88	150	9.19	34.13
20	8.92	34.08	200	9.29	34.15
30	8.98	34.08	250	6.45	34.18
50	9.00	34.13	300	2.98	34.08
75	8.98	34.10	400	1.21	34.14
100	9.05	34.15	500	0.63	34.09

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	10	18:00	1530			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	6	1019	9.1	8.8			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.65	34.10	125	8.54	34.11
10	9.00	34.10	150	8.70	34.07
20	9.03	34.11	200	8.30	34.10
30	9.03	34.08	250	6.50	34.11
50	9.00	34.11	300	3.59	34.09
75	8.80	34.08	400	1.54	34.07
100	8.55	34.12	500	0.85	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	10	15:30	1880	3	20	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	6	1019	8.5	8.0	Ns	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.31	33.97	125	8.51	34.04
10	8.30	34.09	150	7.76	34.04
20	8.70	34.13	200	7.50	34.10
30	8.70	34.12	250	5.30	34.09
50	8.71	34.10	300	3.75	34.07
75	8.50	34.19	400	1.50	34.06
100	8.50	34.07	500	0.87	34.05

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	10	13:20	1440	3	21	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1018	4.9	5.0	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.20	34.08	125	7.85	33.92
10	8.30	34.09	150	6.83	34.11
20	8.35	34.10	200	4.05	34.09
30	8.40	34.09	250	2.40	34.07
50	8.35	34.09	300	1.65	34.07
75	8.30	34.08	400	1.30	34.06
100	8.10	34.08	500	0.45	34.02

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	10	11:00	1780	3	21	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1018	5.8	5.6	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.30	34.10	125	8.08	34.08
10	9.39	34.26	150	7.05	34.07
20	9.38	34.22	200	6.05	34.08
30	9.40	34.03	250	2.88	34.08
50	9.45	34.10	300	1.35	34.08
75	9.38	34.17	400	0.69	34.09
100	8.18	34.11	500	0.51	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	23	18:10	52	3	10	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	5	1019	18.3	18.1	Ns	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.28	34.40	30	12.01	34.75
10	13.27	34.66	50	11.23	34.75
20	12.95	34.73			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	23	17:05	210	4	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	4	1020	20.8	19.5	Ci	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.10	34.76	75	10.25	34.71
10	12.95	34.71	100	9.13	34.66
20	12.35	34.69	125	8.05	34.61
30	12.15	34.70	150	5.25	34.37
50	11.18	34.71	200	4.05	34.31

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	23	16:10	700	4	8	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1020	19.1	18.2	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.21	34.67	125	4.45	34.32
10	12.78	34.71	150	3.30	34.30
20	12.39	34.72	200	1.93	34.32
30	11.83	34.72	250	0.91	34.33
50	11.36	34.70	300	0.73	34.33
75	9.54	34.68	400	0.61	34.62
100	5.38	34.38	500	0.42	34.72

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	23	14:45	1390	4	10	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1020	13.7	11.9	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.89	34.73	125	7.31	34.39
10	12.59	34.74	150	6.99	34.39
20	11.89	34.64	200	3.85	34.32
30	10.02	34.45	250	3.09	34.30
50	9.48	34.42	300	1.31	34.32
75	8.75	34.41	400	0.70	34.33
100	8.01	34.37	500	0.53	34.32

t. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	23	12:25	1530	4	15	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
ection	Force		Dry	Wet	Type	Amount	
SW	2	1020	19.3	19.2	Cu	3	B C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.10	34.41	125	7.73	34.37
10	9.80	34.42	150	6.70	34.47
20	9.70	34.41	200	3.80	34.31
30	9.58	34.41	250	2.02	34.30
50	9.20	34.42	300	1.10	34.30
75	8.56	34.38	400	0.70	34.33
100	7.82	34.37	500	0.50	34.33

. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	23	10:10	1880	3	17	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
ection	Force		Dry	Wet	Type	Amount	
SW	3	1018	16.1	15.8	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.05	34.39	125	7.80	34.37
10	9.87	34.41	150	6.80	34.35
20	9.70	34.42	200	3.93	34.32
30	9.42	34.42	250	1.95	34.31
50	9.00	34.41	300	1.19	34.32
75	8.40	34.40	400	0.68	34.33
100	8.01	34.38	500	0.50	34.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	23	08:10	1440	3	13	2	0

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1019	12.9	12.1	Cu	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.90	34.40	125	7.60	34.36
10	9.73	34.41	150	6.60	34.35
20	9.35	34.42	200	3.79	34.31
30	9.27	34.42	250	1.72	34.30
50	8.87	34.42	300	1.13	34.29
75	8.14	34.39	400	0.64	34.31
100	7.52	34.39	500	0.50	34.31

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	23	05:15	1780			4	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1019	11.5	11.2			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.80	34.38	125	8.45	34.39
10	9.63	34.38	150	7.05	34.36
20	9.55	34.42	200	5.19	34.31
30	9.40	34.41	250	2.62	34.29
50	8.99	34.40	300	1.18	34.29
75	8.87	34.47	400	0.61	34.29
100	8.55	34.40	500	0.45	34.29

6월 (June)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	08:00	52	4	7	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1002	20.0	19.2			R

Z m	T ℃	S ‰	O_2 %	PO_4-P μg·at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg·at/ℓ
0	18.51	33.52	5.72	0.16	30	11.50	34.04	4.81	0.68
10	14.91	34.12	5.96	0.20	50	9.51	34.05	4.96	0.73
20	12.87	34.20	5.22	0.36					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	06 : 40	210	4	8	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	4	1005	21.2	18.4	Ci	2	B

Z m	T ℃	S ‰	O_2 %	PO_4-P μg·at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg·at/ℓ
0	17.17	33.81	5.92	0.09	75	6.59	34.04	5.12	1.04
10	16.29	33.80	6.02	0.09	100	2.99	33.84	5.62	0.91
20	14.49	34.00	–	0.16	125	1.91	33.73	5.62	0.82
30	12.60	–	5.26	0.50	150	1.50	33.78	5.62	1.36
50	11.75	34.20	–	0.57	200	1.14	33.79	5.82	1.27

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	12	07:50	700	4	8	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1005	21.2	18.9	Ci	4	BC

Z m.	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	17.37	33.26	—	125	4.72	33.76	5.23
10	15.84	33.53	6.05	150	2.57	33.70	5.64
20	14.38	33.75	5.51	200	1.47	33.67	6.04
30	12.70	33.93	5.24	250	1.01	33.67	5.22
50	12.19	33.96	5.03	300	0.90	33.67	6.23
75	8.19	33.91	5.13	400	0.59	33.69	5.14
100	7.19	33.75	5.35	500	0.58	33.58	5.42

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	12	09:10	1390	3	17	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1005	22.4	19.7	Ci	2	B

Z m	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	18.80	33.36	5.53	125	11.10	34.10	4.82
10	16.90	33.44	5.55	150	9.56	33.98	4.72
20	15.60	33.56	5.73	200	3.32	33.71	5.53
30	14.50	34.02	5.22	250	1.89	33.69	5.72
50	14.50	34.01	4.31	300	1.29	33.70	5.32
75	14.09	34.18	4.31	400	0.73	33.69	5.04
100	12.12	34.13	4.93	500	0.61	33.68	5.10

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	12	11:30	1530	3	15	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	6	1006	22.9	20.3	Ci	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.10	33.69	125	13.41	34.14
10	19.57	33.75	150	12.45	34.14
20	17.61	34.05	200	6.12	33.87
30	16.41	34.12	250	2.00	33.70
50	15.21	34.14	300	1.35	33.70
75	14.08	34.16	400	0.85	33.67
100	13.48	34.14	500	0.70	33.69

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	12	13:35	1880	3	21	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	6	1004	22.6	19.8		0	B

Z m	T ℃	S. ‰	Z m	T ℃	S ‰
0	19.25	33.40	125	13.15	34.13
10	18.01	33.50	150	10.95	34.16
20	16.95	33.65	200	8.25	33.86
30	16.70	33.74	250	5.00	33.72
50	15.65	33.95	300	2.10	33.70
75	14.39	34.05	400	1.02	33.71
100	13.92	34.22	500	0.70	33.68

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	12	15:40	1440	3	19	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	6	1004.5	20.0	18.6	As	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.80	33.28	125	10.70	33.88
10	18.69	33.32	150	8.47	33.77
20	18.37	33.42	200	5.90	33.70
30	17.92	33.35	250	2.19	33.99
50	16.93	33.79	300	1.40	33.78
75	14.50	34.08	400	0.70	33.67
100	13.59	34.15	500	0.56	33.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	12	17:40	1780	3	19	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	7	1004	19.2	18.3	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.45	33.71	125	10.64	33.69
10	18.92	33.73	150	8.30	33.68
20	17.95	33.70	200	5.20	33.69
30	16.74	33.80	250	2.18	33.70
50	14.71	33.75	300	1.49	33.70
75	13.42	33.78	400	0.78	33.72
100	11.02	33.75	500	0.49	33.74

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	21:35	52			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1004	22.2		As	9	C

Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ
0	20.79	33.59	4.71	0.14	30	13.48	34.35	4.49	0.45
10	19.01	33.67	5.24	0.23	50	9.81	34.33	4.52	0.75
20	14.94	34.20	5.34	0.41					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	20:45	210			1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1003	22.2		Ci	7	BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg-at/ℓ
0	20.12	33.61	5.13	0.11	75	6.98	34.20	5.04	0.93
10	18.49	33.71	5.33	0.16	100	3.84	34.07	5.35	0.98
20	13.50	34.30	4.52	0.20	125	2.66	34.04	5.47	1.04
30	12.35	34.34	4.33	0.66	150	2.19	34.03	5.62	1.18
50	9.97	34.34	4.53	0.82	200	1.33	—	5.52	1.25

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	11	19:20	700			1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1002	23.9		Ci	10	C

Z m	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	19.62	33.65	4.83	125	3.21	34.06	5.77
10	19.14	33.61	5.09	150	2.51	34.21	4.94
20	16.03	33.69	5.30	200	1.36	34.03	5.50
30	13.31	34.17	5.30	250	1.11	34.03	5.34
50	11.21	34.30	4.61	300	0.81	34.05	5.42
75	7.55	34.24	4.92	400	0.55	34.05	5.43
100	4.79	34.02	5.44	500	0.48	33.98	5.40

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	11	17:40	1390			1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1002	24.7		Ci	7	BC

Z m	T ℃	S ‰	O_2 %	Z m	T ℃	S ‰	O_2 %
0	20.47	33.66	5.13	125	3.10	34.06	5.33
10	16.22	33.86	5.23	150	2.46	34.04	5.32
20	13.80	34.29	4.41	200	1.42	34.05	5.41
30	13.08	34.41	4.29	250	1.03	34.05	5.41
50	10.91	34.38	—	300	0.71	34.05	5.42
75	7.09	34.38	—	400	0.55	34.06	5.33
100	4.31	34.09	5.23	500	0.48	34.05	5.57

월 (August)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	14	20:30	52			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	6	1009	23.8	23.4			BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/ℓ
0	21.30	33.06	6.87	0.50	30	10.67	34.28	4.22	1.14
10	16.29	33.86	5.51	0.61	50	7.69	34.27	4.53	1.59
20	12.30	34.18	5.25	1.48					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	14	19:40	210			5	3

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	6	1009	23.6	24.3			BC

Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/ℓ	Z m	T ℃	S ‰	O_2 %	PO_4-P μg.at/ℓ
0	23.36	32.88	4.52	0.23	75	7.18	34.18	4.81	1.25
0	23.61	32.98	5.91	2.54	100	3.97	34.07	5.31	1.41
20	17.18	33.76	5.21	0.50	125	2.43	34.02	5.54	1.36
50	15.91	33.96	5.41	1.14	150	2.04	34.00	5.47	1.41
50	10.36	34.18	4.10	1.41	205	1.52	34.02	5.69	1.59

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	14	18:40	700	2	17	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1009	24.2	24.1	Ci	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.70	32.44	125	6.98	34.20
10	21.23	32.78	150	6.50	34.37
20	17.80	33.45	200	6.29	34.26
30	14.95	33.94	250	3.27	34.21
50	14.02	34.33	300	2.40	34.04
75	10.68	34.28	400	0.92	34.04
100	7.93	34.18	500	0.91	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	14	17:10	1590	2	17	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1009	25.8	24.6	Ci	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.61	32.40	125	14.50	34.26
10	26.00	33.22	150	14.05	34.40
20	22.08	33.74	200	4.75	34.16
30	17.42	34.11	250	2.50	34.02
50	16.02	34.28	300	1.50	34.00
75	16.30	34.40	400	1.20	34.02
100	15.66	34.33	500	0.75	34.02

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	14	15:15	1580	2	18	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	3	1010	27.2	26.4	Ci	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.65	32.50	125	15.30	34.34
10	26.05	32.33	150	10.00	34.24
20	26.00	32.65	200	5.44	34.11
30	23.20	33.66	250	2.21	34.03
50	18.28	33.92	300	1.15	34.03
75	17.39	33.97	400	0.94	34.04
100	15.29	34.22	500	0.70	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	14	13:15	1880	2	19	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	4	1010	26.0	24.8	Ci	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.80	32.65	125	15.32	34.38
10	24.95	32.49	150	14.12	34.42
20	22.06	33.63	200	12.72	34.31
30	18.36	33.87	250	7.40	34.18
50	16.50	34.07	300	3.72	34.07
75	15.51	34.23	400	1.83	—
100	15.30	34.35	500	1.12	34.02

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	14	11:15	1440	4	18	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1010	26.1	25.3	Ci	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.69	32.67	125	14.54	34.36
10	25.68	32.52	150	13.62	34.42
20	25.60	32.52	200	10.60	34.31
30	20.30	33.14	250	6.84	34.13
50	18.29	33.83	300	3.82	34.05
75	15.27	34.03	400	1.49	34.04
100	14.56	34.25	500	0.88	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	14	09:15	1780	3	20	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1010	25.5	25.1	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.48	32.50	125	13.06	34.42
10	[illegible].58	32.57	150	10.60	34.28
20	[illegible].53	33.48	200	8.20	—
30	17.58	34.01	250	5.68	34.09
50	15.16	34.14	300	3.80	34.01
75	14.27	34.38	400	1.98	34.01
100	13.44	34.41	500	1.10	—

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	16:40	52	4	15	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
	0	1020	28.5	31.2		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.90	33.53	30	20.20	33.53
10	21.95	33.50	50	16.48	33.73
20	21.60	33.48			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	17:15	210	4	16	1	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
	0	1021	22.5	19.7		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.48	33.83	75	14.40	34.33
10	22.70	33.78	100	10.91	34.35
20	22.87	33.84	125	8.20	34.31
30	21.10	33.71	150	4.09	34.22
50	14.55	33.70	205	1.40	34.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	13	18:00	700			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1021	20.4	19.0		0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.75	33.94	125	13.43	34.44
10	22.25	33.88	150	9.80	34.32
20	22.08	33.88	200	5.73	34.24
30	22.04	33.88	250	1.25	34.15
50	16.40	34.26	300	0.97	34.13
75	14.70	34.37	400	0.80	34.13
100	13.74	34.40	500	0.65	34.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	13	19:30	1390			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	2	1021	18.6	17.2			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.52	33.69	125	13.83	34.50
10	22.50	33.74	150	10.98	34.33
20	22.57	33.72	200	7.90	34.21
30	21.36	33.81	250	4.72	34.14
50	16.90	33.84	300	2.30	34.11
75	15.36	34.22	400	0.90	34.14
100	14.70	34.43	500	0.70	34.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	13	21:35	1530			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	2	1021	18.7	17.2			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.85	33.54	125	13.94	33.48
10	22.20	33.46	150	10.59	34.32
20	22.20	33.47	200	8.32	34.19
30	22.22	33.52	250	4.82	34.13
50	17.41	34.00	300	2.80	34.13
75	16.15	34.45	400	1.12	34.12
100	14.19	34.44	500	0.75	34.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	13	23:20	1880			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	3	1021	18.5	17.1			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.02	33.41	125	11.47	34.27
10	21.09	33.34	150	8.43	34.24
20	21.38	33.37	200	4.12	34.14
30	21.09	33.44	250	2.10	34.10
50	21.65	33.44	300	1.48	34.13
75	15.43	33.98	400	0.80	34.16
100	14.47	34.21	500	0.62	34.15

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	14	01:10	1440			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1021	18.5	18.1			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.59	33.32	125	8.51	34.25
10	20.68	33.25	150	6.01	34.19
20	20.83	33.24	200	2.70	34.13
30	20.83	33.29	250	1.42	34.09
50	14.80	34.19	300	1.03	34.11
75	13.51	34.37	400	0.82	34.11
100	0.60	34.31	500	0.65	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	14	03:00	1780			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1021	18.2	17.7			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.20	33.39	125	7.05	34.21
10	20.73	33.32	150	5.41	34.18
20	20.75	33.31	200	2.78	34.13
30	20.80	33.31	250	1.66	34.10
50	14.72	34.22	300	1.26	34.11
75	12.05	34.34	400	0.83	34.15
100	9.75	34.30	500	0.61	34.13

12월 (December)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	5	17:50	52				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
W	5	1020	12.5	10.5			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.68	34.11	30	14.21	34.52
10	15.72	34.06	50	13.49	34.30
20	14.22	34.32			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	5	18:30	210				1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1020	12.6	10.4			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.58	34.07	75	14.29	34.37
10	14.53	33.99	100	12.50	34.55
20	14.50	34.01	125	5.28	34.39
30	14.50	34.09	150	2.20	34.51
50	14.45	34.14	205	1.25	34.29

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	5	19:20	700			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1020	12.9	11.2			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.92	34.21	125	5.68	34.46
10	15.92	34.16	150	2.50	34.28
20	15.90	34.22	200	1.24	34.24
30	15.63	34.33	250	0.90	34.37
50	15.32	34.69	300	0.78	34.28
75	15.17	34.69	400	0.53	34.40
100	12.03	34.65	500	0.50	34.29

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	5	20:45	1390			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1020	13.0	11.4			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.10	33.84	125	11.13	34.48
10	16.07	33.88	150	7.10	34.13
20	16.07	33.94	200	2.39	34.02
30	16.05	33.91	250	1.13	34.02
50	16.01	33.89	300	0.82	34.03
75	15.10	33.89	400	0.58	34.03
100	14.54	34.37	500	0.45	34.05

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	5	22:40	1530			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	2	1020	13.2	11.9			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.78	33.83	125	6.06	34.16
10	15.80	33.80	150	5.47	34.06
20	15.65	33.80	200	2.38	34.01
30	15.41	33.80	250	1.47	34.00
50	15.16	33.78	300	0.98	34.04
75	14.08	33.78	400	0.70	34.03
100	10.60	34.19	500	0.60	34.03

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	6	00:40	1880			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
N	3	1020	13.1	12.1			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.08	33.84	125	12.60	34.27
10	15.20	33.82	150	8.87	34.14
20	15.20	33.82	200	6.61	34.08
30	15.16	33.83	250	4.20	34.01
50	14.98	33.86	300	2.73	33.98
75	14.03	34.26	400	1.36	33.98
100	12.65	34.27	500	1.05	34.00

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	6	02:40	1440			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N	3	1020	13.2	12.2			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.62	33.81	125	12.14	34.22
10	15.85	33.80	150	10.18	34.17
20	15.82	33.80	200	6.32	34.03
30	15.72	33.78	250	4.65	34.01
50	15.60	33.78	300	2.91	33.98
75	15.15	33.82	400	1.54	33.95
100	13.14	34.18	500	1.02	34.03

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	6	04:30	1780			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N	4	1020	12.2	11.6			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.00	33.78	125	14.20	34.14
10	5.35	33.77	150	10.50	34.22
20	15.30	33.77	200	7.19	34.09
30	15.28	33.79	250	4.85	34.02
50	15.27	33.81	300	3.32	33.99
75	15.05	33.82	400	1.55	33.93
100	14.22	33.80	500	1.15	33.99

남 해 해 양 조 사 성 적

OCEANOGRAPHIC DATA SOUTHERN WATERS

1 9 7 7

209 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA. LINE 209

월 (February) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	12	07:30	64	4	8	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	2	1025	6.7	6.6	As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.65	34.45	30	10.75	34.46
10	10.65	34.40	50	10.70	34.43
20	10.70	34.41	60	9.85	34.40

. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	08:10	150	4	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
ection	Force		Dry	Wet	Type	Amount	
SE	2	1025	9.2	9.0	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.90	34.47	75	10.84	34.31
10	11.93	34.55	100	10.67	34.39
20	11.90	34.45	125	10.60	34.15
30	11.57	34.44	145	10.58	34.31
50	11.00	34.42			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	12	10:00	250	4	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1024	10.7	10.0	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.77	34.44	100	10.47	34.27
10	11.85	34.48	125	9.95	34.23
20	11.86	34.41	150	9.38	34.12
30	11.83	34.26	200	4.05	34.29
50	11.30	34.29	245	2.45	34.09
75	10.80	34.33			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	12	11:30	250	3	16	3	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1023	10.6	10.0	As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.05	34.38	100	9.30	34.14
10	9.30	34.31	125	9.10	34.11
20	9.85	34.26	150	8.90	34.15
30	9.55	34.20	200	8.61	34.15
50	9.40	34.18	245	7.20	34.08
75	9.40	34.15			

t. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	12	13:50	200	3	15	3	2

Wind		Baro.	Air Temp.		Cloud		Weather
ection	Force		Dry	Wet	Type	Amount	
SW	3	1021	12.2	12.0	Cu	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.19	34.11	75	9.00	34.11
10	9.01	34.09	100	8.99	34.08
20	9.00	34.09	125	8.95	34.09
30	9.09	34.08	150	8.80	34.13
50	9.02	34.08	195	8.75	34.14

. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	12	15:50	150	3	15	3	2

Wind		Baro.	Air Temp.		Cloud		Weather
ection	Force		Dry	Wet	Type	Amount	
SW	4	1021	12.1	12.0	Cu	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.45	34.13	75	9.08	34.18
10	9.40	34.14	100	8.79	34.10
20	9.19	34.16	125	8.75	34.10
30	9.18	34.10	145	8.65	34.10
50	9.09	34.08			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	12	18:00	140	3	15	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1020	11.9	11.0			B

Z m.	T ℃	S ‰	Z m	T ℃	S ‰
0	10.59	34.33	75	10.28	34.32
10	10.70	34.46	100	10.20	34.33
20	10.55	34.37	125	9.90	34.30
30	10.49	34.42	135	9.61	34.36
50	10.31	34.37			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	12	19:55	140			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	6	1020	11.2	11.0			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.75	34.52	75	11.55	34.47
10	11.75	34.51	100	11.34	34.42
20	11.79	34.51	125	11.19	34.39
30	11.78	34.49	135	10.99	34.38
50	11.54	34.50			

t. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	24	00:40	64			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	5	1019	14.9	14.8			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.10	34.78	30	11.59	34.71
10	13.10	34.76	50	11.04	34.70
20	12.50	34.75	60	8.95	34.62

t. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	24	01:25	150			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	5	1019	14.9	14.8			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.62	34.61	75	8.70	34.60
10	13.30	34.70	100	6.48	34.86
20	12.09	-	125	4.48	34.81
30	11.60	34.69	145	3.22	34.27
50	11.20	34.68			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	24	02:50	250			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1019	15.1	15.0			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.70	34.38	100	10.82	34.67
10	13.14	34.55	125	8.85	34.64
20	13.12	34.57	150	6.18	34.48
30	13.02	34.68	200	3.09	34.30
50	13.02	34.63	245	1.70	34.29
75	12.04	34.71			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	24	04:15	250			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1019	15.2	14.9			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.19	34.51	100	10.57	34.71
10	13.12	34.53	125	10.25	—
20	13.85	34.57	150	7.49	34.64
30	13.72	34.68	200	2.98	34.56
50	13.28	34.74	250	1.87	34.33
75	12.86	34.77			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	24	06:10	200	3	8	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	5	1018.5	14.9	14.8			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.04	34.59	75	13.64	34.78
10	13.83	34.61	100	12.75	34.75
20	13.88	34.72	125	11.68	34.79
30	13.88	34.76	150	5.27	34.44
50	13.71	34.78	195	2.78	34.31

. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	24	08:00	150	3	9	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
ection	Force		Dry	Wet	Type	Amount	
SE	3	1018.5	14.8	14.7			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.70	34.81	75	13.92	34.90
10	14.43	34.87	100	13.57	34.91
20	14.10	34.87	125	12.83	34.89
30	13.98	34.88	145	7.38	34.58
50	14.00	34.91			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	24	10:00	140	3	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1017	14.2	14.0			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.83	34.83	75	13.78	34.90
10	14.23	34.87	100	13.63	34.87
20	14.10	34.88	125	13.45	34.89
30	14.05	34.89	135	13.78	34.89
50	13.87	34.90			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	24	11:50	140	3	10	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1013	14.0	14.0			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.38	34.78	75	13.88	34.86
10	14.25	34.83	100	13.64	34.86
20	14.28	34.80	125	12.40	34.77
30	14.08	34.82	135	11.68	34.72
50	14.02	34.83			

No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
4	10	11:20	64	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
tion	Force		Dry	Wet	Type	Amount	
E	5	1003	18.0	18.0			R

	T ℃	S ‰	O_2 cc/L	PO_4-P μg-at/L	Z m	T ℃	S ‰	O_2 cc/L	PO_4-P μg-at/L
	15.62	33.53	5.92	0.27	30	10.70	-	5.52	0.55
	13.82	33.86	6.22	0.16	50	9.81	33.90	5.02	0.73
	12.43	33.95	5.72	0.32	60	6.30	33.77	5.22	0.95

No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
5	10	10:30	150	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
tion	Force		Dry	Wet	Type	Amount	
E	4	1004	18.7	18.5			R

	T ℃	S ‰	O_2 cc/L	PO_4-P μgat/L	Z m	T ℃	S ‰	O_2 cc/L	PO_4-P μgat/L
	16.04	33.67	5.62	0.32	75	10.83	33.92	4.96	1.43
	14.89	33.35	5.52	0.12	100	9.60	33.77	5.42	1.09
	14.30	-	5.52	0.45	125	8.09	-	4.93	0.50
	13.60	33.64	-	0.45	145	6.09	33.94	4.79	0.91
	12.30	33.92	4.57	0.73					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	09:10	250	3	16	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1004	19.2	19.2			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.10	33.32	100	13.21	34.05
0	17.23	33.34	125	10.84	33.92
20	17.07	33.37	150	10.07	33.97
30	16.72	33.30	200	7.89	33.97
50	14.20	34.11	245	5.34	33.73
75	13.87	34.14			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	07:50	250	3	16	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1004	19.7	19.6			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.40	33.36	100	14.85	34.24
10	18.59	–	125	13.45	–
20	17.40	33.66	150	10.17	33.81
30	17.21	34.07	200	7.87	33.96
50	17.05	34.20	245	5.19	33.77
75	15.95	34.23			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	10	06:00	200	3	17	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	4	1005	19.8	19.8			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.01	33.27	75	13.85	34.09
10	18.37	—	100	10.51	34.03
20	17.10	33.34	125	8.45	33.85
30	14.82	33.65	150	6.20	33.82
50	14.36	—	195	3.91	33.74

t. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	10	04:00	150			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	3	1006	20.8	20.8			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.85	33.54	75	14.51	34.20
10	19.17	33.92	100	13.78	34.23
20	18.41	34.03	125	13.27	34.24
30	17.58	34.05	145	11.35	34.06
50	15.92	34.07			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	10	02:05	140			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1007	20.8	20.8			F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.57	34.02	75	14.62	34.10
10	18.08	34.05	100	14.00	34.17
20	17.75	34.06	125	12.90	34.16
30	16.99	34.08	135	11.04	34.15
50	15.22	34.10			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	10	00:05	140			0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1008	21.0	21.0			F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.65	34.10	75	14.51	34.14
10	18.07	34.09	100	13.90	34.19
20	17.90	34.09	125	12.93	34.20
30	16.61	34.06	135	10.84	34.03
50	14.99	34.05			

. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	23:45	64			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
ction	Force		Dry	Wet	Type	Amount	
SE	3	1002	21.9		As	9	C

Z m	T ℃	S ‰	O_2 cc/ℓ	PO₄-P μg.at/ℓ	Z m	T ℃	S ‰	O_2 cc/ℓ	PO₄-P μg.at/ℓ
0	20.44	33.40	5.17	0.30	30	16.94	33.94	4.63	0.51
0	18.49	33.47	5.43	0.18	50	15.72	34.36	4.42	0.64
0	17.29	33.57	4.94	0.48	60	11.43	34.36	4.42	-

No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	00:30	150			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
ction	Force		Dry	Wet	Type	Amount	
E	3	1002	22.2		As	9	C

Z m	T ℃	S ‰	O_2 cc/ℓ	PO₄-P μg.at/ℓ	Z m	T ℃	S ‰	O_2 cc/ℓ	PO₄-P μg.at/ℓ
0	21.54	33.25	4.97	0.07	75	13.01	34.39	3.63	0.75
0	21.18	33.34	5.32	0.09	100	7.48	34.06	4.31	0.98
0	16.35	33.67	5.33	0.36	125	3.91	34.10	5.83	1.02
0	14.37	34.20	4.32	0.43	145	2.78	34.06	7.32	1.25
0	14.06	34.37	4.23	0.48					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	12	01:55	250			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1002	23.2		AS	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.74	-	100	13.48	-
10	22.31	-	125	6.81	-
20	18.81	-	150	4.06	-
30	15.45	-	200	1.78	-
50	14.61	-	245	1.40	-
75	14.24	-			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	12	03:40	250			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1002	23.2		As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.71	-	100	14.10	-
10	21.46	-	125	10.46	-
20	20.80	-	150	8.31	-
30	17.65	-	200	2.68	-
50	14.91	-	245	1.61	-
75	14.97	-			

8월 (August) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	14	22:30	64			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1007	23.2	23.0			BC

Z m	T ℃	S ‰	O_2 cc/ℓ	PO$_4$-P μgat/ℓ	Z m	T ℃	S ‰	O_2 cc/ℓ	PO$_4$-P μgat/ℓ
0	24.09	31.45	4.51	0.34	30	13.30	33.66	5.01	0.34
10	25.15	32.18	4.79	0.34	60	11.20	34.27	3.70	1.14
20	21.60	32.66	5.89	0.34					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	14	23:10	150			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1007	24.4	24.2			C

Z m	T ℃	S ‰	O_2 cc/ℓ	PO$_4$-P μgat/ℓ	Z m	T ℃	S ‰	O_2 cc/ℓ	PO$_4$-P μgat/ℓ
0	25.17	31.66	4.61	0.16	75	14.38	34.36	3.60	0.95
10	25.78	32.73	-	-	100	12.22	34.34	4.04	1.48
20	25.30	32.84	-	0.20	125	8.89	34.24	4.28	1.20
30	24.80	32.84	4.69	0.16	145	3.42	33.96	5.11	1.41
50	15.30	33.41	5.11	0.45					

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	15	00 30	250			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	7	1007	24.5	24.4			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.57	31.29	100	14.07	34.40
10	25.30	32.11	125	13.51	34.42
20	20.49	32.32	150	9.00	34.25
30	15.65	33.68	200	3.42	34.10
50	15.62	33.84	245	1.22	34.04
75	14.62	34.36			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	15	01 50	250			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1007	24.8	24.8			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.00	32.16	100	14.69	34.35
10	26.20	32.01	125	14.04	34.39
20	22.35	33.06	150	13.52	34.21
30	18.80	33.86	200	6.89	34.18
50	17.39	34.24	245	2.15	34.02
75	15.60	34.29			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	15	03:35	200			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N.E	6	1007	24.2	24.1			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.65	32.31	75	16.58	34.14
10	26.20	32.18	100	15.20	34.24
20	23.75	33.32	125	14.79	34.35
30	20.95	33.73	150	14.10	34.32
50	17.95	33.98	195	6.89	34.26

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	15	05:20	150			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1007	24.4	24.0			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.89	32.64	75	15.43	34.18
10	26.09	32.49	100	15.29	34.34
20	24.51	33.23	125	14.25	34.29
30	19.93	33.58	145	13.35	34.36
50	16.10	33.93			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	15	07:05	140	3	15	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1008	24.1	24.0	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.70	32.67	75	10.24	34.05
10	24.80	32.57	100	8.30	34.02
20	18.74	34.17	125	6.72	34.02
30	14.24	34.40	135	3.60	34.02
50	13.02	34.12			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	15	08:50	140	3	16	5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1008	24.2	24.1	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.90	32.72	75	10.35	34.08
10	25.12	32.60	100	8.42	34.03
20	23.34	34.22	125	7.34	34.02
30	17.15	34.42	135	5.74	34.04
50	13.02	34.12			

10월 (October) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	14:55	64	5		2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NW	2	1021	29.2	27.2			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.05	33.54	30	15.50	33.86
10	19.10	33.59	50	13.33	34.08
20	16.59	33.74	60	11.28	34.22

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	14:10	150	4	25	1	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
	0	1021	34.7	33.8			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.72	33.73	75	14.34	33.51
10	22.47	33.66	100	14.21	34.35
20	22.45	33.69	125	10.33	34.39
30	22.43	33.72	145	9.48	34.32
50	17.86	33.89			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	13	12:50	250	4	20	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1022	30.7	30.3			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.70	33.79	100	17.35	33.70
10	22.84	33.74	125	14.38	34.24
20	22.89	33.72	150	12.38	34.35
30	22.89	33.73	200	8.30	34.26
50	22.95	33.75	245	7.70	34.29
75	20.23	33.68			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	13	11:30	250	4	22	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1022	29.0	27.5			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.25	33.93	100	17.55	33.95
10	23.11	33.93	125	14.80	34.37
20	23.10	33.89	150	14.04	34.42
30	23.20	33.90	200	8.45	34.29
50	23.16	33.89	245	5.40	-
75	21.91	33.84			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	13	09:45	200	4	25	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1022	30.5	29.3	Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.50	33.27	75	15.45	34.14
10	21.60	33.16	100	14.60	34.41
20	21.60	33.15	125	13.80	34.49
30	21.91	33.13	150	9.07	34.31
50	19.14	33.55	195	4.57	34.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	13	07:55	150	4	25	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	2	1021.5	26.5	23.6			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.34	33.30	75	14.9	34.28
10	21.30	33.22	100	10.43	34.33
20	21.30	33.23	125	6.89	34.20
30	21.27	33.24	145	5.09	34.13
50	18.83	33.73			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	13	06:15	140			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	2	1021	17.5	15.8			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.38	33.31	75	13.71	34.38
10	20.40	33.32	100	8.03	34.26
20	20.40	33.31	125	5.47	34.15
30	20.40	33.33	135	3.40	34.10
50	17.40	33.93			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	13	04:30	140			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1021	17.5	16.2			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.75	33.42	75	11.59	34.13
10	20.90	33.34	100	7.29	34.14
20	20.92	34.24	125	5.05	34.21
30	20.90	34.40	135	3.93	34.09
50	14.59	34.21			

12월 (December)　　조사선　지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	5	15:50	64	4	12	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1020	20.1	18.9	Cu	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.50	33.87	30	13.15	33.98
10	15.00	33.83	50	13.03	34.17
20	14.19	33.88	60	9.61	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	5	14:50	150	3	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1020	21.2	19.0	Cu	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.15	33.92	75	12.65	34.28
10	16.10	33.90	100	7.05	34.17
20	16.10	33.98	125	4.62	34.12
30	15.43	33.89	145	2.27	34.08
50	14.39	33.97			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	5	13:20	250	3	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1021	21.4	19.2	Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.20	34.11	100	7.04	34.18
10	17.21	34.13	125	4.49	34.09
20	17.15	34.11	150	4.25	34.07
30	16.70	34.04	200	1.75	34.10
50	16.20	34.05	245	1.72	34.10
75	16.12	34.45			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	5	11:50	250	3	23	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1021	22.1	21.1	Cu	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.20	34.02	100	15.08	34.27
10	16.19	33.96	125	12.32	34.28
20	16.17	33.96	150	5.80	34.13
30	16.22	33.94	200	2.17	34.09
50	16.20	33.96	245	1.23	34.08
75	16.11	34.02			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	5	10:00	200	3	23	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
W	4	1021	21.8	20.2	Ac	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.26	33.80	75	15.21	33.82
10	15.27	33.79	100	15.00	34.39
20	15.35	33.80	125	11.90	34.34
30	15.26	33.80	150	6.76	34.13
50	15.23	33.81	195	2.67	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	5	08:10	150	3	17	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
W	5	1020	15.8	15.3	Ac	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.40	33.88	75	15.73	34.07
10	16.47	—	100	8.88	34.14
20	16.40	33.81	125	4.79	34.05
30	16.35	33.80	145	3.44	33.87
50	16.29	33.78			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	5	06:20	140			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1020	13.1	12.1			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.70	34.08	75	16.09	33.92
10	17.78	34.09	100	15.74	33.89
20	17.75	34.07	125	11.30	34.18
30	17.71	34.06	135	5.11	34.11
50	16.39	33.93			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
11	5	04:25	140			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1021	13.4	12.2			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.81	33.93	75	16.73	33.88
10	16.92	33.89	100	15.90	34.34
20	16.82	33.88	125	12.21	-
30	16.77	33.88	135	4.21	34.12
50	16.75	33.87			

208 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 208

월 (February)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	13	13:50	70	4	12	1	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	2	1020	8.8	8.1	Ns	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.55	34.45	30	10.86	34.28
10	11.13	34.41	50	10.45	34.30
20	10.90	33.83	65	10.27	34.29

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	13	12:40	130	4	10	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SW	5	1020	9.5	9.4	Ns	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.13	34.43	50	10.63	34.21
10	11.20	34.41	75	10.63	34.31
20	11.17	34.44	100	10.50	34.31
30	11.11	34.43	125	10.47	34.35

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	13	10:50	150	4	10	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	2	1020	10.4	10.3	As	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.91	34.41	75	11.42	34.01
10	11.90	34.43	100	11.25	34.23
20	11.89	34.45	125	10.90	33.61
30	11.75	34.33	145	10.89	34.30
50	11.61	34.44			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	09:20	143	4	11	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1020	10.2	10.0	Ns	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.94	34.46	75	11.90	34.36
10	12.00	34.49	100	11.79	34.35
20	12.05	34.52	125	11.78	34.18
30	11.99	34.52	140	11.70	34.38
50	12.00	34.59			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	07:40	140			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1019.5	11.6	11.1	Cu	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.65	34.44	75	10.39	34.34
10	11.64	34.48	100	10.20	34.34
20	11.68	34.41	125	10.19	33.92
30	11.60	34.41	135	9.89	34.16
50	10.79	34.37			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	13	06:10	135			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1019.5	10.8	10.0			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.99	34.24	50	9.89	34.29
10	9.92	34.25	75	9.90	34.26
20	9.92	34.27	100	9.90	34.28
30	9.91	34.25	125	9.70	34.22

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	13	04:25	130			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1020	11.3	11.0			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.10	34.14	50	9.93	34.12
10	10.10	34.12	75	9.80	34.11
20	10.08	34.19	100	9.67	-
30	10.08	34.25	125	8.91	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	13	02:50	130			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1020.5	11.4	11.0			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.40	34.34	50	10.08	34.27
10	10.35	34.34	75	9.97	34.30
20	10.25	33.92	100	9.80	34.25
30	10.10	34.15	125	9.00	34.52

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	13	01:10	130			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SW	5	1020	11.7	11.0			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.90	34.32	50	11.78	33.98
10	11.90	34.17	75	11.70	33.98
20	11.80	34.44	100	11.64	34.42
30	11.72	34.01	125	11.40	34.37

월 (April) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	25	03:30	70			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1003	14.1	14.0			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.90	34.42	30	12.59	34.24
10	13.75	34.41	50	12.12	34.67
20	13.36	34.66	65	8.60	34.41

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	25	02:20	130			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1004	14.1	14.0			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.73	-	50	12.90	34.74
10	13.72	34.76	75	12.48	34.81
20	13.42	34.74	100	10.80	34.71
30	13.60	34.71	125	5.02	34.81

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	25	00:50	150			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1003.5	13.9	13.0			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.74	34.64	75	13.45	34.76
10	14.72	34.64	100	12.99	34.72
20	13.90	34.76	125	12.92	34.83
30	13.80	34.77	145	10.10	34.70
50	13.59	34.76			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	24	23:25	143			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1004	13.7	13.6			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.60	34.81	75	14.09	34.76
10	14.50	34.67	100	13.56	34.77
20	14.30	34.75	125	13.21	34.86
30	14.19	34.78	140	11.99	34.81
50	14.17	34.78			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	24	21:50	140			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1006	14.4	13.9			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.50	34.54	50	14.20	34.84
10	14.59	34.71	75	13.70	34.79
20	14.42	34.82	100	13.45	34.80
30	14.40	34.86	125	12.72	34.83

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	24	20:30	135			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1006	14.4	13.9			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.50	34.60	50	14.20	34.82
10	14.59	34.84	75	13.70	34.82
20	14.42	34.86	100	13.45	34.83
30	14.40	34.87	125	12.72	34.86

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	24	19:05	130			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1006.5	13.6	13.3			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.59	34.70	50	14.02	34.85
10	14.50	34.83	75	13.81	34.90
20	14.30	34.83	100	13.59	34.89
30	14.10	34.85	125	12.75	34.88

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	24	17:45	130	4	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1010	13.6	13.5			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.47	34.68	50	14.05	34.89
10	14.20	34.87	75	13.84	34.89
20	14.14	34.90	100	13.38	34.90
30	14.10	34.89	125	12.50	34.85

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	24	16:15	130	3	9	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1010	13.5	13.5			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.43	34.82	50	14.12	34.86
10	14.54	34.87	75	14.03	34.88
20	14.37	34.88	100	13.90	34.89
30	14.29	34.87	125	13.80	34.90

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	9	08:30	70	3	16.3	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1011	27.6	25.3			F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.09	33.40	30	14.83	33.61
10	16.62	33.40	50	14.14	34.04
20	16.00	33.52	65	13.90	34.15

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	9	09:35	130	3	15	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1010.5	25.4	24.2	As	7	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.80	33.38	50	14.50	34.14
10	18.12	33.35	75	14.19	34.16
20	16.25	33.31	100	13.49	34.18
30	15.10	33.94	125	9.30	34.01

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	9	11:00	150	2	23	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	5	1010	24.1	22.3	As	10	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.18	33.28	75	14.30	34.08
10	18.75	33.17	100	14.02	34.11
20	18.00	33.19	125	13.60	34.20
30	16.07	33.45	145	10.80	34.08
50	15.05	33.88			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	9	12:25	143	3	21	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	5	1010	24.2	23.4	As	10	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.60	33.36	75	15.65	34.06
10	19.51	33.34	100	14.58	34.21
20	19.19	33.32	125	13.99	34.22
30	18.41	33.34	140	11.87	34.10
50	17.24	33.66			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	9	13:45	140	3	25	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	1	1010	30.9	27.6	Ac	7	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.71	33.43	75	14.23	34.16
10	18.12	33.43	100	13.70	34.21
20	18.80	33.30	125	12.13	33.97
30	17.05	33.67	135	8.67	33.90
50	15.78	34.13			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	9	15:15	138	2	22	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	1	1010	30.2	27.7	Cu	7	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.51	33.46	50	17.22	33.60
10	18.44	33.44	75	17.13	34.05
20	17.78	33.56	100	15.78	34.11
30	17.35	33.69	125	14.25	34.06

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	9	16:40	130	2	23	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	5	1010	28.4	26.8	Cu	7	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.18	33.44	50	16.83	34.10
10	19.92	33.39	75	15.57	34.13
20	19.00	33.55	100	14.56	34.18
30	18.12	33.17	125	12.38	34.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	9	18:10	130	2	24	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	1	1009	25.1	24.8			F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.40	33.47	50	15.91	33.81
10	18.95	33.42	75	14.31	33.95
20	18.48	33.62	100	14.13	34.07
30	17.35	33.94	125	14.03	34.18

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	9	19:30	130			0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1008	22.8	22.2			F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.07	33.53	50	15.70	33.96
10	18.55	33.53	75	15.13	34.11
20	18.07	33.60	100	14.14	34.18
30	17.05	33.93	125	13.84	34.22

7월 (July)　　조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	13	15:45	70			3	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1002	22.5		Sc	8	C

Z m	T ℃	S ‰	O_2 cc/l	PO_4-P μg-at/l	Z m	T ℃	S ‰	O_2 cc/l	PO_4-P μg-at/l
0	15.91	33.58	5.44	0.11	30	11.39	34.33	-	0.25
10	12.60	34.26	4.33	0.07	50	10.43	34.38	-	0.41
20	12.11	34.30	4.34	0.20	65	8.80	34.41	-	0.59

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	13	13:50	130			3	2

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	4	1002	22.8		Sc	7	BC

Z m	T ℃	S ‰	O_2 cc/l	PO_4-P μg.at/l	Z m	T ℃	S ‰	O_2 cc/l	PO_4-P μg.at/l
0	18.00	33.65	5.20	0.14	50	13.48	34.48	3.93	0.70
10	17.05	33.67	5.22	0.16	75	9.94	34.30	4.44	0.86
20	14.89	33.81	4.92	0.20	100	5.76	34.20	5.03	0.90
30	14.00	34.49	4.31	0.25	125	2.78	34.20	5.57	0.86

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	13	12:30	150			3	2

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SW	4	1002	22.5		Sc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.50	-	75	13.79	-
10	19.10	-	100	13.79	-
20	18.58	-	125	6.23	-
30	16.10	-	145	3.26	-
50	14.45	-			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	11:10	143			3	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1002	22.4		Sc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.77	-	75	15.47	-
10	20.58	-	100	14.24	-
20	20.95	-	125	14.23	-
30	20.57	-	140	8.55	-
50	17.07	-			

8월 (August) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	15	23:35	70			5	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1006	24.5	24.0			R

Z m	T ℃	S ‰	O_2 cc/ℓ	PO_4-P μgat/ℓ	Z m	T ℃	S ‰	O_2 cc/ℓ	PO_4-P μgat/ℓ
0	25.45	32.65	4.63	0.20	30	15.65	33.88	4.30	1.09
10	25.69	32.40	4.50	0.27	50	14.38	34.13	4.00	0.79
20	18.69	33.23	4.81	0.64	65	13.52	34.33	3.70	1.00

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	15	22:30	130			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1007	25.0	25.0			R

Z m	T ℃	S ‰	O_2 cc/l	PO_4-P μgat/l	Z m	T ℃	S ‰	O_2 cc/l	PO_4-P μgat/l
0	25.10	32.55	4.51	0.41	50	14.28	34.18	2.00	1.14
10	25.43	32.37	4.51	0.18	75	14.20	34.37	3.74	1.04
20	19.45	33.47	5.21	0.32	100	13.85	34.38	3.54	1.27
30	14.82	33.95	4.17	1.82	125	10.90	34.29	4.02	1.02

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	15	21:10	150			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	7	1008	25.5	25.1			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.16	32.40	75	15.00	34.33
10	26.40	32.23	100	14.70	34.44
20	19.00	33.36	125	13.97	34.36
30	16.45	33.71	145	8.73	34.24
50	15.70	34.05			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	15	19:50	143			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	7	1008	25.4	25.0			R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.05	32.49	75	17.43	33.97
10	25.67	32.26	100	15.97	34.33
20	25.53	32.42	125	13.47	34.39
30	24.57	-	140	11.35	34.33
50	23.71	33.18			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	15	18:25	140	3	15	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1008	25.5	25.0	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.18	32.53	75	17.39	34.00
10	25.70	32.25	100	15.72	34.34
20	25.40	32.33	125	15.27	34.33
30	24.75	32.94	135	13.84	34.37
50	22.20	33.27			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	15	17:05	135	3	16	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	6	1008	25.1	25.0	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.85	33.25	50	24.10	33.11
10	25.25	33.12	75	23.52	33.54
20	25.10	33.09	100	19.62	33.92
30	24.53	33.21	130	17.24	34.19

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	15	15:40	130	3	17	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	6	1008	24.9	24.6	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.02	33.21	50	24.15	33.10
10	25.53	33.10	75	23.47	33.55
20	25.32	33.08	100	18.78	33.92
30	24.27	33.22	125	16.05	34.18

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	15	14:30	130	3	17	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1009	24.8	24.7	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.10	32.87	50	18.67	34.04
10	25.22	33.14	75	17.58	34.05
20	20.78	33.66	100	15.38	34.21
30	19.63	33.90	125	14.28	34.41

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	15	13:10	130	3	17	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1009	24.6	24.5	As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.98	32.74	50	18.67	34.07
10	25.30	33.10	75	15.58	34.06
20	23.92	33.64	100	13.38	34.21
30	20.32	33.92	125	11.37	34.37

10월 (October) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	12	14:20	70	5	13	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1021	23.8	19.4	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.65	33.21	30	21.54	33.37
10	21.75	33.18	50	19.24	33.32
20	21.65	33.29	65	13.56	33.91

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	12	15:25	130	4	18	2	1.

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1021.5	25.9	20.6	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.50	33.87	50	22.39	33.71
10	23.28	33.90	75	13.80	33.89
20	23.20	33.80	100	13.72	34.52
30	23.18	33.86	125	13.65	34.59

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	12	16:35	150	4	19	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1021	26.7	21.6	Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.73	33.94	75	21.58	33.81
10	23.34	33.87	100	17.48	33.87
20	23.29	33.87	125	15.25	34.29
30	23.29	33.85	145	13.15	34.37
50	23.19	33.86			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	12	17:50	143	4	18	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1021	18.8	16.0	Ci	3	BG

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.62	33.48	75	19.05	33.86
10	23.20	33.37	100	17.70	34.48
20	23.20	33.72	125	15.50	34.44
30	23.08	33.90	140	13.89	34.43
50	22.48	33.88			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	19:05	140			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1021	17.4	15.0			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.19	33.24	75	15.40	34.10
10	21.24	33.07	100	14.45	34.31
20	21.35	33.08	125	13.89	34.30
30	21.32	33.11	135	11.24	34.36
50	21.06	33.22			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	12	20:30	135			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1021	16.9	14.9			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.20	33.28	50	19.92	33.52
10	21.29	33.16	75	14.69	34.27
20	21.18	33.15	100	12.25	34.36
30	21.14	33.15	130	11.45	34.38

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	12	21:45	130			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1021	17.0	15.1			B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.80	33.33	50	15.90	34.16
10	20.92	33.23	75	12.78	34.36
20	20.90	33.20	100	10.90	34.36
30	20.90	33.20	125	7.31	34.23

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	12	23:05	130			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1021	17.0	15.0			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.05	33.28	50	15.03	34.09
10	21.23	33.19	75	13.80	34.31
20	21.23	33.18	100	11.10	34.35
30	21.30	33.20	125	8.62	34.27

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	13	00:20	130			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	2	1021	17.4	15.3			

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.50	33.31	50	16.97	34.32
10	21.87	33.20	75	14.74	34.41
20	21.85	33.18	100	11.78	34.37
30	21.32	33.24	125	9.59	34.30

12월 (December) 조사선 지리산 (Ji Ri San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	4	13:50	70	4	9	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1021	14.9	14.8	Ci	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.90	33.89	30	14.62	34.09
10	14.89	33.86	50	12.85	34.17
20	14.63	33.76	65	8.09	

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	4	14:50	130	3	12	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1021	14.6	12.4	Ci	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.32	33.97	50	15.30	34.28
10	16.20	33.91	75	15.20	34.51
20	15.87	33.92	100	15.15	34.48
30	15.35	33.83	125	8.49	34.22

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	4	16:10	150	3	12	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1021	14.5	12.3	Ci	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.41	33.78	75	15.65	33.84
10	15.78	33.73	100	15.39	33.95
20	15.78	33.72	125	11.32	34.20
30	15.77	33.73	145	3.51	34.11
50	15.70	33.78			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	4	17:30	143			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	6	1021	14.9	12.6	Ci	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.65	33.88	75	15.22	33.84
10	15.69	-	100	15.01	34.30
20	15.69	-	125	12.62	34.31
30	15.46	33.83	140	7.92	34.19
50	15.40	33.78			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	4	18:50	140			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	5	1021	19.0	17.7			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.43	33.92	75	15.49	33.99
10	15.52	33.87	100	14.67	34.27
20	15.54	33.89	125	9.12	34.21
30	15.53	33.92	135	4.04	-
50	15.50	33.89			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	4	20:10	135			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	6	1021	14.3	13.2			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.01	34.05	50	16.90	34.01
10	17.00	34.03	75	15.17	34.25
20	16.95	34.03	100	7.29	34.17
30	16.93	34.02	130	3.18	34.08

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	4	21:30	130			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1021	14.2	14.0			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.80	33.83	50	15.89	33.83
10	15.80	-	75	15.72	33.89
20	15.89	33.81	100	12.73	34.21
30	15.89	33.79	125	2.80	34.08

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	4	22:30	130			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	6	1021	15.6	14.7			C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.04	34.21	50	17.03	33.90
10	18.18	34.22	75	16.27	33.95
20	18.10	34.24	100	15.90	33.86
30	18.09	34.22	125	12.72	34.18

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	5	00:10	130			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	5	1021	15.2	13.9			BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.75	34.27	50	19.10	34.27
10	19.17	34.27	75	19.05	34.28
20	19.10	34.27	100	19.01	34.61
30	19.10	34.27	125	18.62	34.27

207 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 207

2월 (February) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	14	02:40	83				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.00	34.70	30	11.00	34.48
10	11.75	34.70	50	10.90	34.53
20	11.58	34.28	75	10.88	34.34

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	14	02:00	103				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.84	34.70	50	11.62	34.59
10	11.97	34.70	75	11.02	34.51
20	11.90	34.45	100	10.80	34.59
30	11.88	34.65			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	14	01:20	110				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.46	34.72	50	12.18	33.76
10	12.53	34.72	75	11.99	34.70
20	12.45	34.72	100	11.77	34.70
30	12.29	33.76	105	11.44	34.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	14	00:30	230				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.16	34.37	100	12.51	34.73
10	12.45	34.69	125	12.44	33.51
20	12.50	34.69	150	12.38	34.75
30	12.48	34.75	200	12.41	34.75
50	12.51	34.68	225	12.51	34.63
75	12.49	34.73			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	14	00:00	160				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.70	34.59	75	12.45	34.73
10	12.54	34.76	100	12.50	34.48
20	12.50	34.54	125	12.41	34.75
30	12.52	34.54	150	12.28	34.57
50	12.50	34.59			

4월 (April) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	11	18:55	75				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1016.5	14.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.93	34.04	30	12.60	34.40
10	12.81	34.04	50	12.33	34.45
20	12.70	34.38	70	11.83	34.45

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	11	19:40	100				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1016.5	15.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.99	34.56	50	12.50	34.60
10	14.62	34.57	75	11.56	34.45
20	13.78	34.57	95	11.53	34.41
30	13.52	34.60			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	11	20:40	110				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1016.5	15.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.78	34.54	50	14.34	34.55
10	15.39	34.61	75	12.20	34.46
20	15.03	34.62	100	11.14	34.42
30	14.34	34.58			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	21:40	240				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1016.5	16.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.54	-	100	12.48	34.43
10	15.32	34.57	125	11.83	34.38
20	15.27	34.64	150	11.50	34.39
30	15.28	34.66	200	11.30	34.39
50	14.60	34.61	235	11.19	34.38
75	14.20	34.59			

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St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	22:33	160				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1016.5	16.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.70	34.59	75	14.47	34.63
10	15.52	34.65	100	14.23	34.64
20	15.41	34.67	125	13.88	34.60
30	15.33	34.67	150	12.82	34.49
50	15.80	34.64			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	25	18:50	84	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1005.8	19.8		Cc	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.44	33.52	30	19.43	33.50
10	19.45	-	50	19.20	33.52
20	19.43	33.50	75	18.24	33.45

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	25	18:10	102	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1005.8	19.8		Cc	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.54	33.45	50	19.84	33.44
10	19.83	33.43	75	19.21	33.46
20	19.90	33.43	100	17.58	33.59
30	19.62	33.43			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	25	17:30	115	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1005.0	19.8		Cc	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.01	33.46	50	15.08	33.83
10	20.12	33.44	75	13.93	34.22
20	20.00	33.43	100	14.25	34.44
30	19.25	33.47	110	14.24	34.52

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	25	16:40	240	3	16	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1005.0	19.8		Cc	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.41	33.78	100	13.62	34.17
10	19.54	33.75	125	14.01	34.50
20	19.33	33.78	150	14.01	34.52
30	19.11	33.81	200	14.03	34.50
50	19.25	33.79	235	13.91	34.51
75	18.59	33.82			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	25	16:00	160	3	16	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1005.0	19.8		Cc	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.20	33.83	75	14.94	33.88
10	19.25	33.82	100	13.40	33.96
20	18.98	33.82	125	13.97	34.45
30	18.80	33.82	150	13.98	34.51
50	18.44	33.82			

8월 (August) 조사선 한라산 (Han Ra San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	12	09:30	84	4		4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1003.5	25.8		Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.41	32.90	30	14.00	34.26
10	17.86	33.51	50	13.77	34.35
20	15.23	33.78	75	13.70	34.37

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	12	10:45	103	4		4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1003.5	26.4				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.80	31.53	50	14.01	34.35
10	20.76	33.05	75	13.01	34.38
20	18.75	33.93	100	12.38	34.35
30	14.87	34.06			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	12	11:50	115			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1004.0	26.9		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.50	31.00	50	14.10	34.17
10	25.75	30.95	75	13.81	34.36
20	21.77	32.14	100	13.81	34.38
30	16.58	-	110	13.73	34.38

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	12	13:05	240	4		3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
S	3	1002.5	26.6		Ac	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.40	30.73	100	14.06	34.28
10	25.71	30.96	125	14.00	34.37
20	21.35	32.85	150	14.09	34.45
30	18.42	33.57	200	10.69	34.39
50	16.27	33.94	235	6.13	-
75	15.48	34.00			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	14:15	160	4		3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
S	3	1003.0	26.8		Ac	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.80	30.79	75	14.46	34.36
10	26.60	32.46	100	14.36	33.59
20	23.68	33.45	125	14.44	34.38
30	20.39	34.09	150	14.16	34.45
50	16.79	34.22			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	24	18:30	84				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1012.0	20.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.00	32.68	30	16.51	33.34
10	20.27	32.71	50	15.10	33.68
20	19.63	32.93	75	14.49	33.81

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	24	17:30	103			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1012.0	20.8				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.41	32.90	50	16.21	33.05
10	20.53	32.92	75	13.99	33.49
20	20.80	33.05	100	13.50	33.52
30	18.95	33.10			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	24	1635	115	5	13	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1013.0	21.0		Cs	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.03	32.34	50	16.56	32.69
10	20.05	32.34	75	15.18	33.55
20	19.36	32.44	100	14.54	33.79
30	20.07	32.65	110	15.07	34.06

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	24	15:40	238	4	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1013.0	21.0		Cs	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.05	33.75	100	15.35	33.63
10	23.10	33.75	125	15.63	33.63
20	23.15	33.73	150	15.42	34.10
30	23.00	33.71	200	15.37	34.14
40	23.48	33.62	235	15.08	34.22
50	20.41	33.63			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	24	15:00	160	4	16	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1014.0	21.0		Cs	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.20	33.84	75	22.73	33.72
10	23.41	33.84	100	19.25	33.08
20	23.50	33.83	125	16.60	33.99
30	23.37	33.98	150	16.50	34.04
50	23.30	33.85			

12월 (December) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	15	16:50	84	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1020.0	17.2		Ac	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.29	33.47	30	15.79	33.50
10	17.49	33.65	50	15.65	33.72
20	16.12	33.65	75	14.70	33.74

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	15	16 00	103	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	3	1020.2	17.2		Ac	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.02	33.83	50	14.76	32.73
10	17.42	33.67	75	14.95	33.36
20	17.82	33.37	100	14.96	33.86
30	14.91	33.17			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	15	15:10	113	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	3	1020.2	17.2		Ac	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.75	33.88	50	18.44	33.83
10	18.95	33.87	75	17.83	33.73
20	18.83	33.85	100	17.62	33.72
30	18.79	33.84	110	17.37	33.82

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	15	14:20	240	3	15	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1020.2	17.3		Ac	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.49	33.83	100	18.24	33.85
10	18.67	33.93	125	17.88	33.84
20	18.60	33.95	150	16.60	33.96
30	18.64	33.95	200	14.24	33.95
50	18.50	34.01	235	10.95	33.78
75	18.06	33.79			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	15	13:40	160	3	15	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1020.2	17.3		Ac	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.30	33.89	75	17.10	33.59
10	19.01	33.89	100	16.72	33.52
20	19.00	33.89	125	17.05	33.52
30	18.73	33.85	150	16.29	33.83
50	18.25	33.78			

206 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 206

2월 (February) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	13	14:50	62	4	11	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1021.0	10.6		Cs	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.90	34.52	30	10.65	34.37
10	10.91	34.49	50	10.61	34.28
20	10.73	34.64	60	10.49	34.57

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	13	16:00	70	4	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1021.0	10.2		Cs	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.63	34.73	30	11.31	34.68
10	11.67	34.63	50	10.67	34.58
20	11.63	34.73	65	9.85	34.56

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	13	17:10	94				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1021.0	9.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.03	34.78	50	11.39	34.65
10	11.95	34.56	75	11.00	34.59
20	11.81	—	90	10.85	34.50
30	11.65	34.69			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	18:20	110				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1021.0	9.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.70	34.79	50	11.78	34.73
10	12.45	34.71	75	11.46	34.58
20	12.20	34.49	100	11.21	34.58
30	11.91	34.73	105	11.95	34.63

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	19:30	130				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.02	34.61	50	12.32	34.78
10	12.45	34.61	75	12.34	34.78
20	12.41	34.51	100	12.34	34.77
30	12.42	34.56	125	12.30	34.72

4월 (April)　　조사선　태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	12	08:20	62			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1010.0	11.8		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.51	34.43	30	12.44	34.43
10	12.50	34.43	50	12.10	34.42
20	12.48	34.43	60	11.88	34.37

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	12	07:10	70			3	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1010.2	12.5		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.40	34.42	30	12.36	34.42
10	13.31	34.46	50	12.34	34.43
20	12.40	34.44	65	12.30	

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	12	06:10	94				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1010.2	12.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.41	34.35	50	11.51	34.35
10	12.96	34.36	75	11.20	34.33
20	12.51	34.37	90	10.80	34.33
30	12.11	34.36			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	12	04:45	110				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1012.2	14.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.50	34.45	50	12.10	34.38
10	12.61	34.41	75	11.75	34.35
20	12.39	34.39	100	11.38	-
30	12.31	34.39			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	23:30	125				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1012.5	16.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.41	34.65	50	14.04	34.57
10	15.23	34.63	75	13.40	34.54
20	14.82	34.60	100	13.39	34.53
30	14.37	34.58	120	13.30	34.53

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	24	07:50	60			4	2

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1002.2	17.8		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.21	33.48	30	18.31	33.49
10	18.18	33.47	50	18.24	33.48
20	18.12	33.51	55	18.17	33.50

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	25	08:20	70	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1005.5	20.4		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.10	33.40	30	18.73	33.40
10	18.78	33.39	50	18.53	33.57
20	18.80	33.38	65	17.83	33.64

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	25	09:30	90	3	15	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1005.5	20.4		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.58	33.36	50	15.38	33.82
10	19.63	33.35	75	14.14	34.11
20	19.68	33.34	85	14.25	34.37
30	18.00	33.52			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	25	10:40	105	3	15	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1005.5	20.5		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.03	33.44	50	15.55	33.92
10	20.15	33.39	75	14.20	34.25
20	17.52	33.56	100	14.15	34.44
30	16.05	33.82			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	25	11:50	130	3	15	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1006.4	20.3		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.25	33.53	50	15.74	33.91
10	20.69	33.53	75	13.80	33.81
20	20.80	33.59	100	13.43	33.78
30	19.47	33.75	125	13.94	-

8월 (August)

조사선 한라산(Han Ra San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	13	03:15	60				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1002.5	25.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.70	33.46	30	15.53	34.00
10	20.00	33.59	50	14.77	34.14
20	17.36	33.79	55	14.63	34.17

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	13	01:45	70				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
S	2	1002.7	26.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.90	30.78	30	17.00	32.73
10	25.63	31.08	50	14.88	33.76
20	21.16	32.39	65	13.84	34.30

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	13	00:00	90				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
S	2	1003.5	27.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	27.40	30.63	50	14.95	33.79
10	26.44	30.68	75	13.87	34.33
20	21.58	32.23	85	13.94	34.38
30	17.00	33.08			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	12	22 05	130			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	2	1003.5	29.2				C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	27.76	31.08	50	17.89	33.35
10	27.79	31.18	75	16.28	33.71
20	25.26	33.80	100	14.75	34.07
30	22.20	33.83	125	13.90	34.28

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	20 10	130			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	2	1005.0	28.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	27.92	30.77	75	18.85	34.58
10	27.47	30.72	100	15.04	34.46
20	26.86	30.81	125	14.88	34.45
30	23.93	32.04			
50	20.04	34.49			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	24	07:50	58	4	15		

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	2	1015.0	20.3		Cc	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.93	32.79	30	17.54	32.99
10	20.02	32.81	50	16.64	33.11
20	19.77	32.85			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	24	08:50	68	4	15		

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	2	1015.0	20.0		Cc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.17	32.71	30	18.51	32.94
10	20.27	32.75	50	13.81	33.48
20	20.25	32.80	65	13.61	33.61

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	24	10:00	90				

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1015.0	20.0		Cc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.30	32.51	50	14.51	32.99
10	18.91	32.52	75	13.85	33.68
20	18.43	32.53	85	13.74	33.74
30	17.39	32.68			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	24	11:10	110	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1016.0	20.8		Cs	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.50	33.86	50	21.96	33.71
10	23.50	33.87	75	19.38	33.67
20	23.65	33.91	100	17.88	33.13
30	22.60	33.85			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	24	12:20	120	4	17	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NW	2	1016.0	22.8		Cs	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.70	33.92	50	21.45	33.55
10	23.77	33.94	75	16.79	33.71
20	23.67	34.11	100	16.40	34.05
30	23.69	33.96	115	16.20	34.12

12월 (December) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	14	09:00	62	4	12	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1023.5	15.6		Ac	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.55	33.28	30	14.71	33.29
10	14.73	33.28	50	14.73	33.31
20	14.68	33.28	60	14.80	33.36

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	14	07:40	70			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1023.5	14.9		Ac	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.06	33.43	30	14.37	33.06
10	15.75	33.34	50	14.16	33.05
20	15.47	33.28	65	15.23	33.30

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	14	06:40	94			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1023.0	14.9				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.91	33.53	50	15.03	33.22
10	17.05	33.53	75	14.70	33.16
20	17.10	33.53	90	15.09	33.44
30	16.95	33.52			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	14	05:30	108				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1023.0	15.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.06	33.51	50	15.33	33.29
10	16.80	33.51	75	14.80	33.23
20	16.81	33.51	100	14.88	33.21
30	16.31	33.46			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	14	04:20	170				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1023.0	15.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.08	33.46	75	15.93	33.23
10	16.50	33.39	100	15.93	33.24
20	16.52	33.38	125	15.10	33.13
30	16.50	33.37	150	15.08	33.18
50	16.31	33.43			

205 선 해 양 관 측 성 적

OCEANOGRAPHIC DATA, LINE 205

2월 (February) 조사선 태백산 (Tae Baek San

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	4	14:00	55	6	5	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1021	1.5		Cu	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	6.99	33.64	30	6.96	33.77
10	7.00	33.49	50	6.97	33.77
20	6.96	33.65			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	11	18:10	60				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1023	8.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.15	33.65	30	9.80	33.81
10	10.02	33.50	50	8.98	33.80
20	9.90	33.91			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	11	19:20	86				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1023	8.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.26	34.68	30	10.69	34.00
10	12.22	34.55	50	9.74	34.10
20	11.59	34.37	75	8.77	34.07
			80	8.74	34.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	21:00	85				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1023	8.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.82	34.64	30	12.78	34.64
10	12.98	34.64	50	12.58	34.71
20	12.49	34.64	75	12.22	34.57
			80	12.01	34.65

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	22:40	116				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1023	8.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.78	34.41	50	13.50	34.75
10	13.89	34.61	75	13.39	34.68
20	13.93	34.66	100	12.80	34.60
30	13.68	34.47	110	12.80	34.60

4월 (April) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	13	24:00	54				

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
		1012	12.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.60	34.08	30	11.00	33.89
10	11.39	34.07	50	10.87	34.15
20	11.20	34.10			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	13	23:20	60				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1012	13.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.86	34.41	30	11.85	34.27
10	13.00	34.34	50	11.60	34.25
20	12.34	34.32			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	13	22:20	83				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1012	14.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.00	34.57	30	13.85	34.53
10	14.54	34.55	50	12.99	34.48
20	13.92	34.54	75	12.84	34.47

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	21:00	80				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1012	15.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.10	34.64	30	15.60	34.61
10	16.05	34.64	50	14.80	34.60
20	15.80	34.64	75	14.59	34.57

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	19:00	115			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1011	15.0		As	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.31	34.65	50	16.02	34.66
10	16.30	34.66	75	16.12	34.67
20	16.30	34.66	100	15.41	34.66
30	16.10	34.65	110	14.80	34.63

6월 (June) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	23	12:00	54	3	17	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1004.5	20.6		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.72	33.47	30	17.43	33.52
10	18.04	33.44	50	17.05	33.55
20	17.78	33.48			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
2	23	13:0	60	3	17	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1004.5	20.6		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.36	33.50	30	17.53	33.52
10	17.80	33.48	50	17.19	33.55
20	17.69	33.50			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	23	14:10	86			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1003.5	20.5		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.17	33.40	30	17.57	33.48
10	18.12	33.39	50	16.90	33.57
20	18.09	33.38	75	16.15	33.66

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	23	15:50	85			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1003.5	20.2		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.95	33.36	30	18.86	33.34
10	18.82	33.36	50	17.43	33.61
20	18.79	33.34	75	14:14	33.82

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	23	17:30	116			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1003	20.2		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.89	33.32	50	14.41	33.66
10	19.97	33.31	75	13.85	33.80
20	19.93	33.30	100	13.95	34.08
30	18.35	33.40	110	14.23	34.24

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	14	07:20	54	4			1

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
NE	3	1009	25.3		As	5	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.54	31.93	30	15.03	33.46
10	21.06	32.21	50	13.51	33.81
20	18.43	32.91			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	14	03:30	58				

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
		1008	25.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.75	31.75	30	15.39	33.49
10	21.36	32.30	50	13.24	33.92
20	18.10	33.14			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	14	01:40	85				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amoun.	
		1008	24.6				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.57	31.90	30	15.45	33.43
10	19.39	32.75	50	13.39	33.66
20	17.92	33.04	80	12.80	33.96

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	23:15	84				

Wind		Baro.	Air Temp.		Cloud		Weath.
Direction	Force		Dry	Wet	Type	Amount	
		1008	24.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.26	31.92	30	16.90	33.13
10	22.69	32.13	50	13.79	33.84
20	18.83	32.75	75	13.23	34.19

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	20:35	110				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1008	24.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.00	31.64	50	14.71	33.65
10	24.54	32.05	75	13.06	34.15
20	21.00	32.80	100	13.37	34.23
30	16.19	33.33			

10월 (October) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	16	08:10	54	6	7	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1017	18.2		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.20	32.41	30	16.48	32.85
10	21.23	32.41	50	13.47	33.20
20	20.15	32.57			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	23	15:00	60			0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1016	21.0			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.90	32.36	30	19.30	32.54
10	20.13	32.56	50	18.37	32.68
20	19.65	32.55			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	23	16:00	83	4	13	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1017	22.6			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.64	32.23	30	15.30	32.88
10	18.42	32.41	50	12.80	33.05
20	16.93	32.54	75	13.05	33.38

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	23	17:30	82	4		0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1017	22.3		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.66	33.04	30	21.80	33.36
10	21.44	33.09	50	17.86	33.05
20	21.65	33.12	75	15.83	33.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swel
05	23	19:10	116				

Wind		Baro.	Air Temp.		Cloud		Weath
Direction	Force		Dry	Wet	Type	Amount	
		1017	22.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.01	33.96	50	23.55	33.90
10	24.00	33.98	75	23.40	33.99
20	23.97	33.98	100	23.27	34.03
30	23.90	34.01	110	21.73	34.29

12월 (December) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	7	12:10	54	8	4	3	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1016.4	15.1		Cs	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.61	32.38	30	12.51	32.49
10	12.60	32.46	50	12.36	32.50
20	12.60	32.50			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	13	17:40	55			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1022.8	14.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.31	33.31	30	15.41	33.57
10	15.09	33.27	50	15.83	33.86
20	14.79	33.28			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	13	16:40	80	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1022.5	14.5		Ac	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.28	33.90	30	16.30	33.40
10	18.82	33.89	50	16.11	33.72
20	18.56	33.85	75	16.06	33.87

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	15:00	80	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1022	14.7		Ac	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.39	33.20	30	16.70	33.24
10	16.48	33.20	50	16.95	33.36
20	16.59	33.20	75	16.57	33.28

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	11:40	115	3	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1022.2	22.9		Ac	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.52	33.04	50	19.00	33.90
10	19.85	33.02	75	17.34	33.42
20	19.82	33.04	100	16.85	33.29
30	19.00	33.83	110	16.75	33.28

204 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 204

2월 (February) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	4	15:10	38	6	5	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1021	1.5		Cu	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.55	33.76	20	8.40	34.09
10	8.43	33.80	35	8.47	-

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	4	16:30	29	6	5	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1021	1.5		Cu	5	Bc

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.26	32.59	20	6.53	33.60
10	6.45	33.67	25	5.31	33.65

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	4	18:10	45				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1021	0.9				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.42	33.29	20	6.09	33.63
10	6.42	33.63	30	6.09	33.47
			40	6.03	33.63

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	5	10:00	75	5	10	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1025	0.5		Cu	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.31	34.16	30	11.69	34.32
10	11.75	34.39	50	11.60	34.33
20	11.69	34.29	70	11.65	34.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	5	11:40	90	5	10	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1025	1.5		Cu	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.36	34.46	30	12.92	34.27
10	12.83	34.45	50	12.87	34.2
20	12.88	34.16	75	12.92	34.31
			85	12.94	34.42

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	5	12:40	128	5	10	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1025	2.0		Cu	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.19	34.65	50	14.05	34.57
10	14.95	34.35	75	14.04	34.16
20	14.98	34.30	100	13.51	34.49
30	14.00	-	125	13.92	34.25

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	14	01:55	38				

Wind		Baro.	Air Temp.		Cloud		Weath
Direction	Force		Dry	Wet	Type	Amount	
		1012	12.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.90	34.10	20	11.49	34.12
10	11.64	34.11	30	11.21	34.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	14	02:20	28				

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
		1012	12.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.26	34.15	20	11.70	34.10
10	11.90	34.14	25	11.62	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	14	03:20	45				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1012	12.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.60	34.35	20	12.65	34.41
10	12.80	34.41	30	12.58	34.37
			40	12.50	34.37

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	16	14:00	75	3	16	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1010.5	14.5			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.05	34.48	30	13.91	34.48
10	13.97	34.50	50	13.85	34.48
20	13.95	34.48	70	13.79	34.52

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	16	15:20	89	3	18	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1010.5	14.5		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.15	34.54	30	15.07	34.54
10	15.15	34.57	50	14.81	34.55
20	15.13	34.55	75	14.59	34.56
			85	14.31	34.57

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	16	15:40	125	3	23	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1010.5	16.6		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.89	34.64	50	15.80	34.64
10	15.87	34.64	75	14.84	34.59
20	15.90	34.64	100	14.41	34.56
30	15.81	34.64	120	14.34	34.55

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swel
01	17	12:00	40	5	10	0	1

Wind		Baro.	Air Temp.		Cloud		Weath
Direction	Force		Dry	Wet	Type	Amount	
SE	1	1005	20.5		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.71	33.43	20	17.20	33.43
10	17.40	33.45	30	16.83	-

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	17	13:30	28	5	10	0	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
SE	1	1005	20.5		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.38	33.49	20	15.82	33.51
10	17.15	33.49	25	15.61	33.58

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	17	15:00	45	5	11	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	1	1004	20.1		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.59	33.51	20	16.28	33.48
10	16.42	33.47	30	15.65	33.55
			40	13.73	-

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	17	17:00	75	4	12	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1003.5	19.2		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.35	33.30	30	15.47	33.47
10	18.38	33.12	50	14.38	-
20	17.15	33.21	70	13.90	33.88

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	17	18:30	90			3	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1003.5	19.4		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.39	33.28	30	17.44	33.20
10	19.34	33.29	50	16.46	33.78
20	19.29	33.29	75	15.80	34.04
			85	15.25	34.17

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	17	20:10	128			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1003.5	19.2		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.05	33.16	50	14.02	33.83
10	18.93	33.13	75	13.35	34.16
20	17.68	33.29	100	13.44	34.33
30	15.20	33.80	125	13.38	34.34

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	14	08:15	38	5		3	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1009.5	27.0		As	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.09	32.01	20	17.40	33.09
10	20.43	32.44	30	14.09	33.64

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	14	10:10	30	5		3	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1010	27.5		As	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.20	32.58	20	16.10	33.54
10	18.67	32.95	25	15.71	33.63

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	14	12:00	45	5		3	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1011	27.5		As	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.93	32.61	20	17.96	33.20
10	19.39	32.99	30	13.65	33.64
			40	13.09	33.67

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	26	04:30	75			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1007	25.7		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.81	31.34	30	23.78	31.41
10	23.87	31.32	50	22.70	31.75
20	23.86	31.45	70	12.97	33.24

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	26	06:25	90			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1007	24.5		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.40	31.37	30	24.12	31.67
10	24.16	31.39	50	20.45	31.76
20	24.20	31.43	75	11.68	33.54
			85	11.54	33.55

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	26	08:10	125			3	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1012	24.5		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.42	30.57	50	17.26	32.55
10	24.30	31.85	75	12.49	33.48
20	22.48	32.06	100	12.29	33.66
30	20.94	32.09	120	11.88	33.74

10월 (October) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	16	09:15	38	6	7	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1017	18.6			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.95	32.49	20	21.00	32.51
10	21.09	32.49	30	20.85	32.59

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	16	10:20	28	7	5	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1017	18.5		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.40	32.47	20	20.48	32.55
10	20.80	32.47	25	19.81	32.54

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	16	11:30	45	7	5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1017	19.2		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.44	32.44	20	18.58	32.53
10	19.09	32.45	30	16.74	32.72
			40	15.02	32.93

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	16	13:40	75	7	5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1017	19.5		Ci	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.22	32.20	30	18.06	32.77
10	20.23	32.20	50	13.89	32.87
20	19.14	32.62	70	13.52	33.66

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	16	15:10	90	7	5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1016	20.2		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.50	32.57	30	19.97	33.08
10	20.63	32.57	50	17.80	33.53
20	20.23	32.83	75	16.33	33.66
			85	15.25	34.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	16	16:45	128	7	5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1016	20.2		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.80	32.53	50	19.03	33.10
10	20.67	32.53	75	17.88	33.66
20	20.72	32.64	100	16.43	33.70
30	20.70	32.71	125	15.17	34.18

12월 (December) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	7	12:50	38	7	5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1016	12.2		Cs	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.64	32.46	20	12.45	32.48
10	12.61	32.46	35	12.16	32.46

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	7	14:00	28	8	4	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1016	12.0		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.77	32.69	20	12.94	32.71
10	12.92	32.73	25	12.93	32.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	7	15:10	45	3	16	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1016	12.2		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.10	33.01	20	14.33	33.00
10	14.39	33.01	30	14.26	32.98
			40	13.79	33.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	8	09:20	75	3	16	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1015.8	11.2		Cc	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.70	32.81	30	16.60	33.04
10	16.42	33.00	50	16.75	33.09
20	16.53	32.99	70	16.30	33.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	8	10:40	90	3	16	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1015.8	12.0		Cc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.97	33.39	30	17.60	33.44
10	17.45	33.41	50	17.57	33.44
20	17.53	33.43	75	17.59	33.47
			85	17.57	33.41

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	8	11:50	128	3	16	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1015.8	12.8		Cc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.89	33.98	50	19.60	33.98
10	19.66	34.00	75	19.35	33.94
20	19.73	34.00	100	17.23	34.03
30	19.67	34.00	125	15.98	34.03

203 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 203

2월 (February) 조사선 태백산 (Tae Baek San

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	10	08:50	60	4	12	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1021	6.4		Ns	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.00	-	30	12.30	34.27
10	12.29	34.27	50	12.34	34.46
20	12.34	34.22			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	10	07:40	95				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1020	6.3		Ns	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.20	34.46	30	12.39	34.48
10	12.32	34.71	50	12.39	34.48
20	12.37	34.61	75	12.35	34.43
			90	12.36	34.59

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	10	06:30	130				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1020	5.6				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.47	34.53	50	12.69	34.55
10	12.60	34.74	75	12.56	34.62
20	12.62	34.35	100	12.53	34.48
30	12.71	34.64	125	12.43	34.54

4 월 (April)　　조사선　태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	20	11:20	57	4	15	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1012	15.5			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.40	34.29	30	11.80	34.25
10	11.98	34.24	50	11.52	34.23
20	11.84	34.26			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	20	12:30	95	4	[illegible]	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1012	14.7			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.04	34.25	30	11.83	34.22
10	11.98	34.24	50	11.79	34.22
20	11.90	34.23	75	11.78	34.22
			90	11.61	34.22

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	20	14:05	135	4	13	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	5	1012	16.5			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.61	34.33	50	13.34	34.35
10	13.55	34.33	75	13.22	34.33
20	13.39	34.33	100	13.19	34.34
30	13.34	-	125	13.18	34.37

6월 (June)　　조사선 태백산 (Tae Baek San

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	19	08:55	57	4	14	3	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
NE	1	1007.5	19.2		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.35	33.31	30	14.70	33.61
10	15.48	33.28	50	14.65	33.90
20	14.95	33.38			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	19	10:10	95	4	13	3	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1007.5	19.5		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.28	32.55	30	16.06	33.62
10	16.90	33.02	50	14.46	33.93
20	16.30	33.39	75	14.23	34.11
			90	13.55	34.12

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	19	11:25	135	4	15	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1007.5	19.8		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.90	32.59	50	14.53	32.62
10	17.85	32.57	75	14.04	32.54
20	17.78	32.58	100	13.33	32.62
30	15.40	32.78	125	13.28	33.40

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	29	10:50	57			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1014	24.8		Cs	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.96	31.06	30	21.41	31.32
10	22.89	31.08	50	19.99	31.67
20	22.19	31.12			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	29	09 05	97			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1014	23.2		Ns	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.09	30.84	30	22.19	30.96
10	23.20	30.96	50	19.30	31.96
20	22.89	30.90	75	12.41	33.19
			95	10.02	33.39

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	29	07:10	135			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1014.6	22.4		As	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.17	30.85	50	17.41	32.82
10	23.17	30.95	75	12.15	33.38
20	23.47	31.41	100	10.12	33.43
30	22.19	31.77	125	9.80	33.52

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	17	13:30	57	5	9	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1019	18.4			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.50	32.34	30	13.64	32.84
10	14.87	32.69	50	12.25	33.05
20	14.15	32.80			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	17	15:00	95	5	10	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1019	18.4			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.80	32.27	30	14.45	32.81
10	16.72	32.44	50	13.01	33.15
20	16.07	32.52	75	12.24	33.21
			90	12.09	33.26

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	17	16:10	135	5	9	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1012	18.5			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.77	32.31	50	14.37	33.53
10	19.98	32.36	75	14.00	33.59
20	19.52	32.78	100	13.87	33.49
30	16.02	33.53	125	13.62	33.40

12월 (December)　　조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	12	12:10	60	4	13	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1021	19.1		Ac	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.49	33.21	20	16.49	33.20
10	16.45	33.16	30	16.46	33.07
			55	16.58	33.24

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	12	11:10	95	4	14	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1022.5	20.0		Ac	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.80	33.39	30	17.30	33.47
10	16.06	33.39	50	17.31	33.47
20	17.23	33.44	75	17.59	33.57
			90	17.83	33.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	12	10:00	128	4	12	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1022.5	14.3		Ac	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.44	33.66	50	17.81	33.77
10	17.57	33.63	75	17.97	33.85
20	17.62	33.66	100	17.84	33.79
30	17.71	33.71	125	17.86	33.80

313 선 해 양 관 측 성 적

OCEANOGRAPHIC DATA, LINE 313

2월 (February) 조사선 태백산 (Tae Baek San

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	10	03:50	92				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1020	6.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.89	34.37	50	13.47	34.61
10	13.27	34.75	75	13.49	34.43
20	13.88	34.37	90	13.70	34.57
30	13.75	34.46			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	10	02:40	88				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1020	6.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.72	34.48	50	13.02	34.65
10	13.12	34.32	75	13.12	34.48
20	13.10	34.51	85	13.00	34.45
30	13.10	34.55			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	10	01:30	84				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1020	6.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.70	34.39	50	12.35	34.23
10	11.60	34.42	75	12.30	34.50
20	12.16	34.46	80	12.31	34.13
30	12.26	34.48			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	10	00:20	83				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1020	5.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.39	34.40	50	12.37	34.49
10	12.21	34.65	75	12.38	34.54
20	12.61	34.42	80	12.37	34.54
30	12.37	34.49			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	9	23:20	80				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1020	6.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.57	34.37	50	11.84	34.19
10	11.81	34.34	75	11.88	34.42
20	11.82	34.34	75	11.88	34.25
30	11.84	34.43			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	9	22:00	70				

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
		1020	5.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.75	34.51	30	11.93	34.31
10	11.81	34.04	50	11.91	34.37
20	11.88	33.95	65	11.93	34.37

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	9	20:50	75				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1020	4.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.49	34.08	30	11.60	34.13
10	11.59	33.95	50	11.66	34.15
20	11.61	-	70	11.63	34.15

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	9	19:40	70				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1020	5.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.46	34.20	30	11.31	33.84
10	11.30	34.20	50	10.80	34.08
20	11.30	34.09	65	11.30	33.94

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	9	18:30	70				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1020	4.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.78	34.07	30	10.83	33.98
10	10.83	34.02	50	10.83	33.81
20	10.83	33.75	65	10.80	34.08

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	21	08:45	90	3	18	3	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	1	1015.5	14.7			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.45	34.08	50	13.17	34.16
10	13.18	34.07	75	13.19	34.16
20	13.16	34.06	85	13.22	34.17
30	13.13	34.09			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	21	10:05	90	4	14	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	1	1015	14.7		Cs	10	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.87	33.66	50	12.70	33.86
10	12.31	33.60	75	12.08	33.96
20	12.32	33.62	85	12.09	33.95
30	12.66	33.80			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	21	11:10	85	5	13	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	1	1016	13.6		Cs	10	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.95	33.99	50	12.49	34.03
10	12.57	33.92	75	11.80	33.92
20	12.52	33.93	80	11.55	33.90
30	12.50	33.94			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swel
05	21	12 20	84	6	12	3	0

Wind		Baro.	Air Temp.		Cloud		Weath
Direction	Force		Dry	Wet	Type	Amount	
SW	1	1015.4	13.8		Cs	10	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.25	33.65	30	11.81	33.71
10	11.84	33.63	50	11.92	33.83
20	11.88	33.67	75	12.21	33.84

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	21	13 30	85	6	10	3	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	1	1015	14.0		Cs	10	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.92	33.61	30	11.50	33.66
10	11.66	33.65	50	11.84	33.88
20	11.86	33.70	75	11.87	33.99

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	21	14:40	72	7	9	3	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	1	1015	13.2		Cs	10	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.37	33.72	30	11.53	33.77
10	11.78	33.68	50	11.58	33.94
20	11.54	33.61	70	11.60	33.98

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	21	15:30	75	7	10	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	1	1015	13.3		Cs	10	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.24	33.62	30	11.28	33.65
10	11.41	33.61	50	11.23	33.69
20	11.25	33.63	70	11.26	33.96

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	21	17:00	70	6	12	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	1	1014	13.2		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.72	33.51	30	10.68	33.62
10	11.10	33.52	50	10.79	33.87
20	11.80	33.58	65	10.83	33.89

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	21	18:10	68	9	8	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	1	1014	13.8		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.28	33.43	30	10.17	33.51
10	10.34	33.43	50	10.38	33.81
20	10.23	33.47	65	10.41	33.81

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swel
02	20	09:10	90	4	14	4	2

Wind		Baro.	Air Temp.		Cloud		Weath
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1006.5	19.8		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.04	32.92	50	15.25	33.90
10	19.44	32.90	75	13.83	34.14
20	19.31	32.93	85	13.57	34.25
30	17.69	33.49			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	21	01:00	92				

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
		1006.4	19.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.41	32.78	50	13.28	34.00
10	19.28	32.80	75	13.50	34.24
20	18.37	32.58	90	13.49	34.25
30	16.40	32.99			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	21	02:10	85				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1006.2	20.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.51	32.12	50	12.99	-
10	17.47	32.11	75	13.02	34.17
20	15.17	32.16	80	13.04	34.19
30	12.99	32.95			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	21	03:30	84				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1006.5	18.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.39	31.96	30	12.02	33.86
10	17.37	31.92	50	11.90	33.85
20	12.80	33.64	75	11.94	33.86

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	21	04:45	83				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1006.5	19.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.31	31.83	30	12.04	33.82
10	17.31	31.78	50	12.00	33.86
20	12.05	32.81	75	11.96	33.93

t. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	21	06:00	72				

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
		1006	19.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.82	31.92	30	11.09	-
10	17.60	31.90	50	11.45	33.65
20	11.49	32.81	70	11.43	33.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	21	07:10	75	4	13	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1006	20.1		Cs	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.65	31.98	30	10.17	33.32
10	17.57	31.98	50	10.19	33.37
20	11.65	32.46	70	10.23	33.39

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	21	03:20	71	4	13	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1006	19.6		Cs	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.03	31.89	30	10.55	33.43
10	17.73	31.88	50	10.52	33.40
20	10.90	33.36	65	10.43	33.43

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	21	09:30	68	5	9	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1006	19.5		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.08	31.80	30	9.85	33.27
10	17.66	31.85	50	9.80	33.27
20	10.40	33.28	65	9.81	33.27

8월 (August)　　조사선 한라산 (Han Ra San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	28					4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1014.8	25.8		Cc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.80	30.75	50	17.70	32.98
10	23.88	30.83	75	14.26	33.59
20	23.56	31.10	85	12.50	33.71
30	22.72	31.57			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	28	16:00	93	3		4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1014.8	26.2		Cc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.80	31.18	50	20.39	31.88
10	24.96	31.09	75	11.07	33.06
20	24.86	31.12	90	9.76	33.33
30	24.62	31.37			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	28	14:10	85	3		4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1014.7	26.0		Cc	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.60	31.05	50	21.68	31.97
10	24.81	31.15	75	10.08	33.26
20	24.56	31.17	80	9.74	33.27
30	24.48	31.32			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	28	12:20	82	3		4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1014.9	25.2		Cc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.35	30.92	30	23.50	31.98
10	24.67	30.98	50	10.26	33.23
20	24.30	31.11	75	9.50	33.40

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	28	10:40	80			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1014.5	24.3		Cc	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.18	30.88	30	23.90	31.01
10	23.83	30.99	50	10.85	32.98
20	23.88	31.84	75	9.52	33.39

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	28	08:50	70		-	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1014.5	23.8		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.22	31.42	30	20.77	32.58
10	24.00	31.75	50	10.47	32.19
20	23.40	32.09	65	10.24	33.43

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	28	07:00	75				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1013.5	22.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.84	31.64	30	22.95	32.12
10	23.90	31.82	50	10.40	33.33
20	23.76	31.03	70	8.21	33.42

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	28	05:20	76				

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
		1013.5	22.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.00	28.83	30	20.77	31.88
10	23.98	30.30	50	10.27	32.19
20	24.07	31.18	75	7.58	33.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	28	03:30	65				

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
		1013.4	22.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.71	28.44	30	16.14	31.72
10	23.56	29.44	50	9.56	33.40
20	21.20	30.75	60	7.85	33.40

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	17	18 :30	90				

Wind		Baro.	Air Temp.		Cloud		Weath
Direction	Force		Dry	Wet	Type	Amount	
		1019	18.6				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.89	32.97	50	18.70	33.15
10	19.00	32.99	75	12.18	33.59
20	18.85	33.03	85	16.61	33.70
30	18.80	33.08			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	17	19 :50	92				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1019	18.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.83	31.32	50	19.51	33.11
10	20.26	31.32	75	19.20	33.30
20	20.36	32.64	90	18.17	-
30	19.70	32.78			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	17	21 :10	88				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1019	18.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.04	31.49	50	19.16	31.66
10	20.23	31.50	75	14.10	32.98
20	20.39	31.49	85	14.10	33.64
30	20.39	31.49			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	17	22:30	85				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1019	18.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.30	31.34	50	14.90	31.92
10	20.30	31.34	75	13.65	33.49
20	20.30	31.34	80	13.43	33.50
30	20.22	31.34			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	17	23:50	84				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1019	18.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.90	31.10	30	13.64	32.12
10	20.65	31.11	50	12.88	32.78
20	20.65	31.19	75	12.62	33.24

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	18	01:00	72				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1020	18.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.36	30.99	30	17.30	31.64
10	20.50	30.99	50	14.00	31.69
20	20.57	30.98	70	11.87	32.80

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	18	02:20	76				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1020	18.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.35	30.96	30	19.10	31.56
10	20.67	31.04	50	13.86	31.96
20	20.65	31.05	75	11.52	32.92

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	18	03:20	70				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1020	18.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.83	31.04	30	19.33	31.83
10	20.96	31.04	50	11.62	32.70
20	20.94	31.04	65	11.41	32.81

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	18	04:40	68				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.96	30.88	30	18.12	31.27
10	20.35	30.97	50	11.68	32.17
20	20.45	30.97	65	11.60	32.80

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	11	03:20	90				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1022	13.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.02	33.99	50	18.18	33.83
10	18.20	33.88	75	18.18	33.86
20	18.19	33.86	85	18.19	33.83
30	18.19	33.85			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	11	02:20	92				

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
		1022	13.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.12	33.87	50	18.39	33.8
10	18.34	33.90	75	18.39	33.89
20	18.38	33.90	90	18.30	33.9
30	18.38	33.87			

t. No.	Date	Time	Depth	Water Co or	Water Trans.	Wave	Swell
04	11	01:20	85				

Wind		Baro.	Air Temp.		Cloud		Weather
ection	Force		Dry	Wet	Type	Amount	
		1022	13.1				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.05	33.78	50	18.45	33.88
10	18.41	33.87	75	18.45	33.90
20	18.48	33.89	80	18.48	33.88
30	18.50	33.90			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	1	00 : 20	80				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1022	13.1				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.21	33.87	30	18.55	33.87
10	18.50	33.87	50	18.58	33.87
20	18.53	33.87	75	18.54	33.88

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	23 : 20	84				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1021.5	13.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.34	33.63	30	17.84	33.66
10	17.70	33.67	50	18.04	33.73
20	17.68	33.68	75	18.11	33.94

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	22 : 10	75				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1021.5	13.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.37	33.44	30	17.69	33.59
10	17.19	33.41	50	17.70	33.68
20	17.44	33.46	70	17.84	33.95

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	10	21:10	75				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1021	13.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.27	33.65	30	17.89	33.82
10	17.90	33.77	50	17.89	33.84
20	17.97	33.82	70	17.67	33.94

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	10	20:10	70				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1021	13.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.15	33.05	30	17.56	33.35
10	17.03	33.16	50	17.95	33.57
20	17.19	33.24	65	17.87	33.74

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	10	19:10	70				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1020.5	12.9				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.54	33.17	30	17.44	33.35
10	16.35	33.13	50	17.67	33.42
20	17.20	33.20	65	17.71	33.43

314 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 314

2월 (February)　　조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
00	7	17 00	150				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1023	6.9				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.30	34.24	75	14.33	34.61
10	14.72	34.24	100	14.38	34.70
20	14.21	34.64	125	14.33	34.78
30	14.25	34.48	145	14.33	-
50	14.35	34.68			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	7	18:35	140				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1023	6.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.50	34.18	75	14.38	34.39
10	14.55	34.66	100	14.40	34.34
20	14.25	34.60	125	14.36	34.63
30	14.36	34.60	135	14.31	34.63
50	14.31	34.60			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	7	20:20	125				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1023	5.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.76	34.37	50	14.50	34.78
10	14.46	34.53	75	14.55	34.31
20	14.50	34.68	100	14.33	34.55
30	14.26	34.36	120	14.48	34.55

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	7	22:20	110				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1023	5.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.06	34.55	50	14.78	34.76
10	14.51	34.56	75	14.77	34.64
20	14.70	34.59	100	14.80	34.70
30	14.71	34.55			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	7	24:00	100				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1022.5	5.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.33	34.63	50	14.80	34.50
10	14.51	34.66	75	14.81	34.63
20	14.61	34.66	95	14.79	34.67
30	14.76	34.69			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	8	02:00	105				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1022.5	5.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.22	34.47	50	14.91	34.64
10	14.54	34.36	75	14.95	34.67
20	14.84	34.60	100	14.95	34.44
30	14.90	34.48			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	9	08:40	110			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	2	1022	5.2		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.11	34.31	50	13.80	34.20
10	13.34	34.15	75	13.82	34.45
20	13.65	34.17	100	13.82	34.56
30	13.82	34.40			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	9	10:20	90			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	4	1021.5	4.4		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.85	34.51	50	13.20	34.52
10	13.00	34.53	75	13.25	34.28
20	13.14	34.25	85	13.55	34.55
30	13.16	34.59			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	9	12:00	90			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1020.5	4.5		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.60	34.36	50	12.93	34.59
10	12.85	34.46	75	12.90	34.37
20	12.82	34.35	85	12.90	34.41
30	12.90	34.21			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	9	13:40	80			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1020	3.8		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.20	34.26	30	12.50	34.16
10	12.43	34.52	50	12.57	34.45
20	12.50	34.54	75	12.57	34.37

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	9	15:20	75			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1019.5	4.5		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.45	34.24	30	12.46	34.24
10	12.65	34.39	50	12.50	34.37
20	12.48	34.45	70	12.53	34.07

4월 (April) 조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
00	17	01:30	160				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1010	16.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.40	34.65	75	15.32	34.65
10	17.30	34.65	100	14.85	34.63
20	17.33	34.66	125	13.88	34.53
30	17.33	34.67	150	13.96	34.53
50	17.23	34.65			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	17	03:20	138				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1010	16.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.30	34.65	75	16.13	34.65
10	17.13	34.65	100	14.94	34.61
20	17.27	34.65	125	14.32	34.57
30	17.31	34.67	135	14.34	34.59
50	17.25	34.65			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	17	05:10	125				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1010	15.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.20	34.67	50	16.08	34.62
10	16.17	34.64	75	14.91	34.64
20	16.17	34.64	100	13.81	34.51
30	16.13	34.63	120	13.80	34.49

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	17	06:50	110				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1010	15.6				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.35	34.54	50	14.61	34.50
10	15.35	34.56	75	14.31	34.57
20	15.31	34.54	100	14.21	34.54
30	14.93	34.54			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	22	07:40	100	5	13	3	0

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	2	1015.5	15.8		Ns	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.90	34.49	50	14.17	34.43
10	14.70	34.49	75	14.08	34.46
20	14.57	34.43	100	14.13	34.52
30	14.48	34.45			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	22	06:00	106			3	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1016	15.5		Ns	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.05	34.53	50	14.40	34.52
10	14.85	34.51	75	14.24	34.51
20	14.68	34.49	100	14.19	34.54
30	14.58	34.49			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	22	04:20	110				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1015	15.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.61	34.45	50	14.56	34.53
10	14.53	34.50	75	14.55	34.51
20	14.57	34.51	100	14.26	34.50
30	14.56	34.52			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	22	02:40	80				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1015	14.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.10	33.73	30	13.80	34.11
10	13.10	33.86	50	13.15	34.14
20	13.20	33.95	75	12.75	34.17

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	22	01:55	90				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1015	12.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.30	33.32	50	10.22	33.64
10	10.70	33.41	75	11.40	33.82
20	10.59	33.45	85	11.40	33.87
30	10.04	33.42			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	21	23:20	80				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1015	12.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.60	33.04	30	9.76	33.64
10	9.88	33.09	50	10.66	34.11
20	9.73	33.11	75	10.80	34.20

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	21	21:40	75				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1015.5	13.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.83	33.24	30	10.80	33.28
10	10.85	33.14	50	10.80	33.67
20	10.68	33.16	70	10.81	33.86

6월 (June)　　조사선　태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
00	22	16:40	160	4	11	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1003	21.5		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.50	32.28	75	14.95	34.18
10	20.12	33.24	100	13.50	34.05
20	21.13	33.24	125	13.30	34.30
30	18.47	34.06	150	13.13	34.28
50	16.80	34.01			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	22	15:00	140	4	11	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1003.5	20.4		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.60	32.66	75	16.18	34.40
10	20.43	32.63	100	14.89	34.15
20	20.40	32.63	125	14.53	34.36
30	19.90	32.81	135	14.49	34.35
50	17.04	33.77			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	22	13:15	125	4	12	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1004	21.1		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.37	32.67	50	15.59	34.08
10	20.35	32.65	75	15.12	34.13
20	18.39	33.18	100	14.97	34.18
30	16.70	33.74	120	14.93	34.27

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	22	11:30	110	4	12	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1004	20.3		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.19	32.76	50	15.29	34.92
10	19.28	33.05	75	14.78	34.24
20	17.30	33.51	100	13.83	34.41
30	16.03	33.94			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	22	10:00	100	4	12	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1004.4	20.3		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.20	32.82	50	15.55	34.15
10	20.08	32.81	75	14.03	34.15
20	19.04	33.11	95	13.20	34.29
30	16.82	33.78			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	22	08:15	100	4	11	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	5	1004	20.3		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.23	32.11	50	15.38	34.10
10	20.07	32.73	75	13.68	34.26
20	19.20	33.16	95	13.30	34.26
30	17.60	33.72			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	21	19:10	110			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1004.5	20.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.88	32.66	50	15.03	34.00
10	19.73	32.68	75	13.51	34.21
20	19.03	33.20	100	13.16	34.19
30	19.03	33.41			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	21	17:30	90	4	13	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1004.5	20.5		Cc	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.38	32.35	50	15.04	33.80
10	18.15	32.30	75	13.53	34.22
20	18.10	32.39	85	13.04	34.23
30	18.15	32.51			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	21	15:50	90	4	12	3	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	3	1004.5	19.9		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.51	32.00	50	12.73	34.12
10	18.06	31.96	75	12.61	34.16
20	16.82	32.00	85	12.56	34.15
30	14.80	32.74			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	21	14:05	80	4	12	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	3	1005.2	19.6		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.97	31.88	30	11.91	33.39
10	17.44	31.65	50	12.58	34.06
20	12.19	32.29	75	12.70	34.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	21	12:30	75	5	10	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1005.2	19.5		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.09	31.68	30	10.74	33.23
10	17.89	31.64	50	11.45	33.71
20	13.65	32.14	70	11.08	33.82

8월 (August) 조사선 한라산 (Han Ra San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
00	26	21:40	158			4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1011.5	25.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	2[illegible].52	33.46	75	20.00	34.57
10	[illegible].11	33.50	100	18.00	34.44
20	26.20	33.51	125	15.66	34.35
30	26.12	33.52	150	15.55	34.35
50	23.96	33.80			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	27	00:00	138				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1012	25.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.13	33.30	75	18.09	33.34
10	26.29	33.31	100	18.31	34.27
20	26.29	33.37	125	15.69	34.06
30	26.20	33.32	135	14.72	34.10
50	26.23	33.32			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	27	02:30	125				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1012	24.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.53	32.88	50	20.65	33.95
10	26.61	33.33	75	18.22	33.89
20	26.32	33.37	100	15.95	34.09
30	26.53	33.37	125	14.82	34.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	27	04:50	108				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	2	1012.5	24.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.10	33.35	50	19.05	34.36
10	26.46	33.36	75	15.28	—
20	26.76	33.44	100	15.56	34.35
30	25.37	33.47			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	27	07:10	100			0	0

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	2	1013	24.4		As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.00	33.15	50	23.20	33.44
10	26.53	33.39	75	15.30	33.91
20	26.45	33.39	95	14.78	34.04
30	26.36	33.50			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	27	09:40	100			0	0

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
W	2	1013	26.3		Cc	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.20	32.43	50	23.08	32.69
10	25.48	32.36	75	16.85	33.61
20	25.71	32.34	95	14.21	33.87
30	25.52	32.40			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	27	12:00	110			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
SE	2	1013	26.8		Cc	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.30	32.36	50	18.62	33.20
10	24.75	32.43	75	13.70	33.75
20	24.57	32.59	100	12.44	33.37
30	24.05	32.55			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	27	14:30	90			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1013	25.7		Ci	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.30	32.43	50	17.61	33.38
10	24.27	32.42	75	13.05	33.56
20	23.84	32.40	85	12.92	33.77
30	23.45	32.46			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	27	16:50	90			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	3	1013	26.8		Ci	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.18	31.78	50	17.61	33.00
10	24.66	32.36	75	12.82	33.70
20	23.82	32.54	85	12.73	33.91
30	23.25	32.61			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	27	19:30	80			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
E	3	1012.5	24.6		Ac	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.82	31.55	30	20.11	32.11
10	22.52	32.25	50	12.87	33.27
20	21.80	32.13	75	12.36	33.89

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	27	21:45	73				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1013	23.6				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.84	31.53	30	17.15	33.02
10	23.08	31.78	50	11.93	33.78
20	20.00	31.80	70	11.84	33.79

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
00	21	24:00	155				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1019	20.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.18	33.91	75	24.45	33.92
10	24.39	33.93	100	24.25	33.90
20	24.41	33.93	125	18.10	33.93
30	24.27	33.92	150	18.60	33.90
50	24.45	33.92			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	21	22:20	135				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1019	20.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.22	33.97	75	24.34	34.00
10	24.28	—	100	24.38	34.01
20	24.35	33.97	125	24.44	34.10
30	24.37	33.98	130	19.31	34.12
50	24.35	33.99			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	21	20:40	120				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1019	20.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.63	33.92	50	24.44	33.94
10	24.35	33.92	75	24.52	33.94
20	24.31	33.92	100	24.17	33.96
30	24.35	33.92	115	20.28	34.22

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	21	19 00	110				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1019	20.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.40	33.83	50	23.33	33.53
10	24.08	33.84	75	20.40	34.24
20	23.95	33.83	100		34.37
30	23.82	33.79			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	21	17:20	100	5	13	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1019	20.7			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.67	33.53	50	17.34	33.66
10	23.15	33.64	75	15.90	33.74
20	23.21	33.61	95	16.00	33.82
30	23.05	33.65			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	21	15:40	105	5	15	0	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1019	21.7			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.80	32.58	50	21.62	32.93
10	21.80	32.62	75	16.52	32.95
20	21.45	32.62	100	16.65	34.25
30	21.92	32.85			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	21	14:00	110	5	13	0	0

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	2	1019	22.5			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.68	32.64	50	21.57	33.19
10	22.28	33.01	75	17.50	33.60
20	22.13	33.08	100	15.61	34.10
30	22.03	33.09			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	18	13:30	90	5	11	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	6	1020	19.5			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.70	31.88	50	15.45	32.51
10	20.79	31.88	75	12.43	32.92
20	20.75	31.92	85	12.30	33.39
30	20.15	32.22			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	18	11:40	90	5	13	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1020	19.0			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.45	31.32	50	20.63	32.07
10	20.51	31.38	75	14.23	32.11
20	20.50	31.41	85	12.36	33.05
30	21.07	31.79			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	18	09:50	80	5	9	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1020	19.0			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.36	31.57	30	20.15	31.62
10	20.38	31.58	50	16.63	31.63
20	20.40	31.59	75	12.87	32.33

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	18	08:00	75	5	8	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	6	1020	18.8			0	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.35	31.64	30	18.80	32.00
10	20.35	31.65	50	14.31	31.86
20	20.80	32.04	70	13.43	32.09

12월 (December)　　조사선 태백산 (Tae Baek San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
00	8	19:50	160				

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
		1014	15.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.60	34.06	75	20.76	34.08
10	20.30	34.05	100	20.80	34.06
20	20.71	34.04	125	20.84	34.07
30	20.71	34.04	150	20.80	34.03
50	20.78	34.05			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	8	21:40	140				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1014	15.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.70	34.09	75	20.95	34.02
10	20.77	34.02	100	20.95	34.02
20	20.90	34.02	125	20.87	34.02
30	20.94	34.02	135	19.83	34.08
50	20.95	34.03			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	8	23:30	125				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1014	14.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.30	34.06	50	20.34	34.02
10	20.37	34.07	75	20.44	34.04
20	20.45	34.06	100	20.30	34.04
30	20.44	34.05	120	18.22	34.08

t. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	9	01:20	110				

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
		1014.5	13.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.00	34.02	50	19.05	34.02
10	19.09	34.01	75	18.80	34.06
20	19.12	-	100	18.72	34.04
30	19.17	34.02			

t. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	9	03:10	100				

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
		1015	13.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.49	34.03	50	19.67	34.02
10	19.65	33.99	75	19.62	33.98
20	19.65	34.04	95	19.55	34.00
30	19.70	34.00			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	9	05:00	100				

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
		1015	13.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.77	33.93	50	18.75	33.91
10	18.66	34.02	75	18.67	33.91
20	18.74	33.90	95	18.50	33.90
30	18.73	33.93			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	09:00	110	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1020.2	13.1		Ac	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.20	33.93	50	18.67	33.92
10	18.83	33.90	75	18.44	33.96
20	18.86	33.90	100	18.31	34.08
30	18.81	33.94			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	10:50	90	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1020.5	13.2		Ac	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.75	33.88	50	18.67	33.85
10	18.81	33.88	75	18.32	33.89
20	18.85	33.90	85	18.15	33.94
30	18.70	33.85			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	10	12:40	85	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1019	13.4		Ac	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.87	33.88	50	18.83	33.89
10	18.75	33.91	75	18.79	33.87
20	18.84	33.88	80	18.78	33.94
30	18.84	33.86			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	10	14 :30	80	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1020	14.1		Ac	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.65	33.88	30	18.53	33.88
10	18.45	33.86	50	18.53	33.86
20	18.50	33.87	75	18.24	33.94

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	10	16 :00	78	3	17	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	1	1020	14.2		Ac	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.57	33.87	30	18.47	33.89
10	18.54	33.87	50	18.47	33.84
20	18.48	33.88	75	18.47	33.89

서 해 해 양 조 사 성 적

OCEANOGRAPHIC DATA WESTERN WATERS

1 9 7 7

306 선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 306

2 월 (February) 조사선 한라산 (Han Ra San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	7	11:50	25	11	1.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NNW	4	1040.0	-1.4		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	0.98	31.47	20	1.03	31.59
10	1.06	31.53			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	7	13:20	12	10	1	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NNW	4	1034.1	-0.4		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	1.22	31.56	10	1.14	31.63

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	7	14:45	18	9	2	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NNW	4	1034.0	1.6		As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	1.48	31.57	15	1.60	31.37
10	1.67	31.12			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	7	16:15	42	7	3.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weath
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1034.2	0.2		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	0.82	31.48	30	0.93	31.70
10	0.97	31.72	40	0.85	31.52
20	0.99	31.70			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	7	17:50	50	9	2	4	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1034.2	0.8		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	2.67	31.81	30	3.26	31.97
10	2.61	31.89	45	3.22	32.02
20	3.20	31.94			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	7	19:25	59			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1034.2	1.1		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	2.44	31.76	30	2.32	31.93
10	2.30	31.82	55	2.39	32.00
20	2.27	31.90			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	7	21:00	64			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1033.6	1.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.03	31.81	30	3.15	31.99
10	3.06	31.88	50	3.12	32.08
20	3.11	31.93	60	3.13	32.18

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	7	22:40	65			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1034.5	0.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.45	31.78	30	3.64	31.91
10	3.67	31.81	50	3.66	31.91
20	3.63	31.85	60	3.58	32.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	8	00:20	72			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1034.2	0.1				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.28	31.94	30	4.35	32.12
10	4.38	32.00	50	4.26	32.21
20	4.39	32.04	70	4.42	32.29

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	8	08:50	26	7	3	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	3	1012.5	6.8		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.22	31.57	20	3.37	31.61
10	3.26	31.59			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	8	10:30	14	6	3.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1013.0	7.0		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.34	31.63	10	3.47	31.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	8	12:10	18	7	4	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1014.5	7.2		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.11	31.74	15	3.44	31.81
10	3.62	31.76			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	8	13:50	45	6	5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
SW	3	1013.0	7.5		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.44	31.77	30	3.03	31.82
10	3.12	31.75	40	3.10	31.84
20	3.18	31.80			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	8	15:30	49	6	5.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
SE	3	1012.0	6.0		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.47	31.90	30	3.18	31.98
10	3.21	31.93	45	3.33	32.03
20	3.63	31.92			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	8	17:10	58	5	7	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
SE	3	1011.0	5.3		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.13	31.82	30	3.83	31.88
10	4.47	31.80	55	3.32	31.94
20	4.47	31.83			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	8	18:50	62	5	8	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1012.0	5.3		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.46	31.89	30	3.91	31.95
10	4.23	31.88	60	3.71	32.01
20	3.94	31.92			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	8	20:30	66			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1011.5	5.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.52	31.87	30	3.93	31.92
10	4.01	31.89	50	3.98	31.92
20	4.16	31.88	60	3.92	31.97

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	8	22:10	70			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1011.0	4.9				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.23	31.83	30	4.18	31.90
10	4.04	31.87	50	3.97	31.95
20	4.33	31.84	65	3.93	32.02

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	8	11:05	26	8	3	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	1	1004.9	15.8		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.28	31.68	20	11.94	31.70
10	12.15	31.65			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	8	12:50	12	7	3.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	1	1004.5	16.5		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.40	31.70	10	12.26	31.74

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	8	14:30	19	6	5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
WNW	2	1004.2	16.8		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.49	31.65	15	10.99	31.83
10	12.24	31.74			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	9	10:10	42	5	9	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1003.9	16.8		Cc	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.13	31.70	30	7.94	31.96
10	10.31	31.76	40	7.87	31.98
20	8.89	31.94			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	9	11:50	51	4	11.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1003.6	18.2		Cc	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.03	31.76	30	7.25	32.08
10	14.05	31.81	45	6.92	32.11
20	10.58	31.91			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	9	13:30	58	4	14	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1002.9	17.8		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.87	31.67	30	6.23	32.06
10	12.44	31.78	55	5.87	32.09
20	6.58	32.04			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	9	15:10	64	4	13.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1002.7	18.8		Sc	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.72	31.74	30	6.94	32.07
10	12.25	31.81	50	6.57	32.08
20	9.01	31.97	60	6.01	32.11

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	9	16:50	66	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1002.0	18.6		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.17	31.71	30	6.25	32.11
10	11.48	31.80	50	5.98	32.16
20	8.56	32.00	60	5.50	32.19

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	9	18:30	71	3	14.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1001.2	18.4		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.49	31.77	30	6.90	32.17
10	11.62	31.87	50	6.12	32.21
20	9.65	32.04	65	5.98	32.24

307 선 해 양 관 측 성 적

OCEANOGRAPHIC DATA, LINE 307

2월 (February) 조사선 한라산 (Han Ra San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	8	16:00	38	11	1.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1032.2	2.1		Cs	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	1.05	31.92	20	1.24	31.96
10	1.19	31.95	35	1.11	31.99

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	8	13:30	35	8	2.5	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1032.4	2.8		Sc	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	1.66	32.10	20	1.76	31.77
10	1.75	31.65	30	1.77	32.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	8	11:55	54	8	3.0	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1034.0	1.8		Cc	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	0.98	31.99	30	1.08	31.98
10	1.02	32.05	50	1.04	32.03
20	1.05	32.08			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	8	10:20	60	7	4.0	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1033.6	1.5		Sc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.99	32.39	30	3.60	32.39
10	3.03	32.40	50	3.65	32.38
20	3.64	32.41	55	3.59	32.40

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	8	08:35	58	6	4	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1033.0	1.2		Sc	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	2.65	32.24	30	2.62	32.26
10	2.60	32.29	55	2.62	32.25
20	2.67	32.29			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	8	06:55	63			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1032.1	1.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	2.98	32.29	30	3.31	32.33
10	3.01	32.32	50	3.40	32.40
20	3.35	32.35	60	3.38	32.46

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	8	05:05	67			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1032.5	0.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.62	32.26	30	3.80	32.31
10	3.81	32.28	50	3.75	32.35
20	3.78	32.29	65	3.72	32.42

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	8	03:20	75			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1032.2	0.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.24	32.41	30	4.56	32.51
10	4.31	32.43	50	4.55	32.55
20	4.34	32.47	70	4.53	32.58

4 월 (April) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	9	14:00	40	11	0.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1012.5	10.5		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.46	32.07	20	3.42	32.06
10	3.45	32.08	35	3.37	32.09

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	9	11:20	35	11	1	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1012.5	7.3		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.49	32.05	20	3.70	32.02
10	3.89	32.03	30	3.66	32.05

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	9	09:40	53	8	3	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1012.0	7.9		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.89	32.14	30	3.35	32.22
10	3.28	32.14	50	3.41	32.25
20	3.42	32.21			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	9	08:00	60	5	6	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1012.0	5.6		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.69	32.26	30	3.84	32.30
10	4.44	32.29	50	3.65	32.32
20	4.32	32.28	55	3.62	32.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	9	06:20	57			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1012.0	4.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.97	32.31	30	4.42	32.38
10	4.86	32.29	53	3.95	32.41
20	4.57	32.33			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	9	04:40	64			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	4	1012.0	3.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.93	32.37	30	4.16	32.50
10	4.43	32.39	50	4.32	32.53
20	4.26	32.39	60	4.14	32.53

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	9	03:00	67			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1011.5	3.1				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.82	32.27	30	4.72	32.32
10	4.63	32.24	50	4.92	32.37
20	4.62	32.29	65	4.97	32.44

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	9	01:20	75			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SW	4	1011.5	3.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.42	32.23	30	4.72	32.38
10	4.65	32.27	50	4.88	32.40
20	4.86	32.31	70	4.88	32.47

6월 (June) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	10	10:20	38	4	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NNW	3	994.8	17.8		Cc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.65	31.84	20	11.04	31.88
10	11.20	31.87	35	10.95	31.91

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	10	07:40	34	5	8	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	3	995.5	17.4		Cc	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.48	31.86	20	9.11	32.09
10	12.55	31.95	30	8.70	32.11

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	10	06:00	52			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	996.7	17.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.21	31.83	30	7.65	32.16
10	14.15	31.93	50	7.41	32.19
20	9.19	32.12			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	04:20	59			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	997.5	16.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.48	31.91	30	6.56	32.21
10	15.20	31.88	50	6.58	32.24
20	11.24	32.03	55	6.37	-

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	02:40	57			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	999.2	16.2				R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.86	31.82	30	5.90	32.25
10	13.22	31.91	55	5.92	32.28
20	6.63	32.21			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	10	01:00	62			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	999.5	16.0				R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.85	31.86	30	7.01	32.24
10	13.45	31.96	50	6.09	32.26
20	10.75	32.08	60	5.82	32.30

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	9	23:20	66			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1000.1	16.4		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.76	31.89	30	7.18	32.32
10	13.18	31.97	50	6.34	32.34
20	10.91	32.15	60	5.96	32.37

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	9	21:40	76			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	3	1000.0	17.0		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.38	31.91	30	7.10	32.34
10	12.99	32.03	50	6.67	32.38
20	11.13	32.13	70	6.12	32.39

8월 (August) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	10	09:00	38	6	4.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	998.7	22.3		Ac	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.32	31.46	20	20.48	31.49
10	20.54	31.48	35	20.12	31.54

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	10	11:40	36	5	6	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SSE	3	998.2	24.8		As	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	22.50	31.58	20	19.80	31.71
10	20.48	31.66	30	18.09	31.87

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	10	13:20	54	4	11	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	997.3	26.8		Sc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.10	31.60	30	19.35	31.97
10	22.76	31.57	50	13.22	32.06
20	22.25	31.82			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	15:00	60	3	14	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	996.7	27.1		Cc	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.67	31.75	30	19.58	32.04
10	24.05	31.65	50	12.65	32.22
20	21.70	31.87	55	12.52	32.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	16:40	58	3	15	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	996.0	26.6		Sc	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.37	31.84	30	18.28	32.10
10	24.57	31.81	55	12.00	32.40
20	20.78	31.97			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	10	18:29	63	3	14	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	995.8	26.2		Cc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.64	31.68	30	18.04	32.24
10	25.32	31.73	50	11.02	32.56
20	21.07	32.13	60	10.18	32.60

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	10	20:00	67			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	996.1	25.6		Ac	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.79	31.61	30	17.78	31.95
10	25.18	31.57	50	10.01	32.34
20	19.85	31.73	65	9.20	32.72

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	10	21:40	77			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
WNW	3	996.8	25.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.74	31.65	30	18.22	32.32
10	24.93	31.61	50	9.74	32.58
20	21.45	31.91	75	9.33	32.97

10월 (October) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	7	09:40	32	6	3	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1010.7	17.7		Cb	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.99	32.10	20	20.95	32.07
10	20.95	32.09	30	20.98	32.10

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	7	12:20	34	5	5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1010.0	17.9		Cb	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.20	-	20	20.50	32.17
10	20.49	32.13	30	20.23	32.22

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	7	14:00	55	4	8	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1009.5	18.2		Cu	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.98	31.53	30	20.97	31.79
10	20.79	31.61	50	19.65	32.14
20	20.40	31.84			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	7	15:40	62	3	11	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	10-9.5	17.0		As	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.52	31.28	30	16.10	32.80
10	21.55	31.25	50	15.39	32.95
20	19.27	31.90	60	14.98	32.97

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	7	17:20	59	3	13	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1009.7	16.4		As	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.02	31.50	30	14.23	32.94
10	21.12	31.41	55	14.19	32.99
20	17.89	32.23			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	7	19:00	64			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1009.8	16.5		As	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.36	31.46	30	16.21	32.49
10	21.05	31.43	50	9.78	32.86
20	18.77	32.09	60	9.87	32.94

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	7	20:40	68			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1010.0	16.6		As	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.49	31.42	30	16.34	32.39
10	20.30	31.45	50	11.94	32.79
20	19.36	31.93	65	10.51	32.87

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	7	22:20	73			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1010.7	16.8		As	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.78	31.44	30	17.81	32.35
10	20.73	31.42	50	12.89	32.81
20	19.38	31.88	70	10.73	32.91

12월 (December) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	8	00:00	40			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1015.5	7.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.90	32.34	20	11.89	32.34
10	11.70	32.34	35	11.89	32.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	7	21:20	28			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1015.0	7.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.59	32.42	30	11.55	32.47
10	11.69	32.45	25	11.56	32.46

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	7	19:40	49			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1015.6	8.1				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.42	32.59	30	11.76	32.62
10	11.69	32.57	45	11.69	32.67
20	11.86	32.61			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	7	18:00	53			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1017.9	8.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.05	32.72	30	10.88	32.72
10	11.08	32.72	50	9.89	32.79
20	11.09	32.69			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	7	16:20	51	4	7	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1015.1	9.9		ac	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.99	32.54	30	10.32	32.61
10	10.41	32.54	45	8.60	32.68
20	10.51	32.59			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	7	14:40	64	4	9	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1014.8	15.3		Ac	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.93	32.51	30	10.03	32.55
10	9.94	32.49	50	10.06	32.56
20	10.29	32.53	60	8.07	32.64

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	7	13:00	67	4	12	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1016.4	12.5		Ac	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.44	32.48	30	7.55	32.59
10	8.04	32.51	50	7.72	32.63
20	7.59	32.57	65	7.65	32.72

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	7	11:20	70	3	15	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1017.7	9.4		Ac	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.94	32.47	30	7.36	32.58
10	8.95	32.47	50	7.75	-
20	8.66	32.50	65	7.17	32.76

308선 해양관측성적
OCEANOGRAPHIC DATA, LINE 308

2월 (February) 조사선 한라산 (Han Ra San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	8	21:05	21			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1031.9	1.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	2.87	32.04	18	2.98	32.13
10	3.15	32.08			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	8	22:35	28			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1031.7	1.1				S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	2.99	32.10	20	3.17	32.14
10	3.21	32.12	25	3.19	32.21

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	9	00:05	50			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1031.4	0.9				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.08	32.26	30	3.29	31.97
10	3.09	32.24	45	3.23	32.06
20	3.22	32.18			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	9	01:45	50			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1031.0	1.0				S

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	2.70	32.16	30	2.79	32.26
10	2.85	32.21	45	2.80	32.30
20	2.80	32.24			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	9	03:15	52			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1031.2	1.3			2	2

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	1.90	32.12	30	2.35	32.16
10	2.07	32.12	50	2.40	32.21
20	2.18	32.10			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	9	05:05	58			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1030.5	1.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.46	32.36	30	3.44	32.66
10	3.55	-	55	3.38	32.72
20	3.48	32.27			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	9	06:45	67			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1030.2	1.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.07	32.80	30	4.49	32.79
10	4.33	32.74	50	4.44	32.74
20	4.40	32.77	65	4.40	32.58

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	9	08:40	76	5	7	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	4	1030.0	1.8		Cc	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.82	32.69	30	4.36	32.76
10	4.27	32.66	50	4.34	32.79
20	4.35	32.72	70	4.34	32.81

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	9	10:15	84	4	9	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	4	1029.5	2.1		Cc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.23	32.71	30	4.52	32.77
10	4.41	32.73	50	4.57	32.83
20	4.47	32.78	80	4.50	32.87

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	9	12:00	80	4	11.0	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	4	1029.0	3.0		Sc	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.11	32.66	30	4.68	32.81
10	4.19	32.68	50	4.52	32.86
20	4.60	32.75	75	4.64	32.83

4월 (April) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	9	19:40	22			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1012.0	6.8				F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.85	32.19	20	3.96	32.24
10	4.23	32.21			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	9	21:20	30			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1012.2	6.5				F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.82	32.27	20	3.94	32.32
10	4.63	32.30	30	3.71	32.35

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	9	23:00	46			3	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1012.4	6.1				F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.39	32.35	30	3.89	32.34
10	4.07	32.37	40	3.78	32.39
20	3.86	32.33			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	10	00:40	51			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1013.0	5.5				F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.78	32.39	30	3.64	32.43
10	3.71	32.39	45	3.60	32.39
20	3.69	32.41			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	10	02:20	50			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1014.8	4.8				F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.50	32.40	30	3.81	32.44
10	4.00	32.43	45	3.79	32.46
20	3.80	32.43			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	04:00	59			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1015.3	4.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.45	32.44	30	3.90	32.48
10	4.27	32.44	55	3.91	32.49
20	4.09	32.47			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	05:40	68			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1016.0	4.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.68	32.46	30	4.01	32.48
10	4.71	32.45	50	3.42	32.48
20	4.36	32.47	65	4.00	32.48

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	10	07:20	76	5	7.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1016.3	4.5		Cc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.70	32.38	30	4.33	32.46
10	4.82	32.35	50	3.98	32.49
20	4.62	32.43	70	4.29	32.49

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	10	09:00	85	4	9.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S E	4	1016.5	5.8		Cc	4	B C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.43	32.41	30	4.92	32.44
10	4.82	32.43	50	4.96	32.47
20	4.73	32.41	80	4.67	32.51

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	10	10:40	80	4	11.0	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1016.5	6.5		Cc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.76	32.47	30	4.88	32.50
10	4.83	32.48	50	4.87	32.53
20	4.92	-	75	4.53	32.58

6월 (June) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	10	16:00	22	6	6	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N W	3	994.9	18.2		Ci	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.48	31.80	20	11.48	31.91
10	13.75	31.78			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	10	17 : 40	29	5	7.5	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	995.7	17.7		Ci	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.34	31.84	20	10.53	31.95
10	13.85	31.88	25	8.91	-

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	10	19 : 20	47	4	9	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	996.4	18.4		Ci	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.09	31.98	30	6.99	32.37
10	14.29	31.96	45	6.83	32.39
20	7.53	32.30			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	09 : 20	50	4	10.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	3	999.7	18.4		Cs	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.74	31.96	30	7.03	32.28
10	10.65	32.10	45	6.69	32.30
20	8.12	32.23			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	11:00	52	4	12	2	11

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	998.8	19.4		Cc	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.53	31.90	30	6.26	32.31
10	13.82	31.95	50	6.12	-
20	6.73	32.25			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	11	12:40	59	3	14	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	998.5	19.8		Ci	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.26	31.94	30	5.68	32.41
10	13.53	31.98	55	5.74	32.44
20	6.18	32.36			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	11	14:20	67	3	15	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	998.7	19.9		Cc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.99	31.87	30	5.86	32.40
10	14.99	31.90	50	5.40	32.43
20	8.79	32.21	65	5.49	32.43

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	11	16:00	75	3	14	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
SW	3	998.8	18.9		Cs	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.01	31.90	30	6.02	32.42
10	14.63	31.97	50	5.65	32.46
20	8.55	32.27	70	5.52	32.50

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	11	17:40	85	4	13.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	999.1	18.7		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.72	31.83	30	6.12	32.30
10	14.17	31.93	50	5.57	32.33
20	8.06	32.19	80	5.40	32.38

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	11	19:20	80	4	13	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	999.4	18.5		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.54	31.99	30	5.94	32.40
10	14.35	31.97	50	5.67	32.43
20	9.58	32.32	75	5.44	32.56

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	11	17:50	21	4	10	13	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	994.2	27.3		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.10	31.28	15	20.51	31.71
10	23.88	31.51			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	11	16:10	28	3	15	1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
ENE	2	994.0	27.8		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.08	31.20	20	20.72	32.10
10	24.32	31.88	45	18.61	32.50

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	11	14:30	49	3	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	994.6	28.0		Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	27.19	32.05	30	15.96	32.76
10	26.69	32.00	45	12.28	32.81
20	23.46	32.28			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	12:50	50	3	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	994.7	28.7		Cc	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	27.09	31.83	30	14.07	32.69
10	26.81	31.76	45	10.43	32.62
20	20.08	32.42			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	11:10	52	3	18	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NNW	3	995.0	27.4		Cu	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.49	31.83	30	14.15	32.90
10	26.88	31.77	50	10.99	32.77
20	20.80	32.12			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	11	09:30	57	3	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	995.4	26.5		Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.97	31.79	30	13.19	32.88
10	26.83	31.75	55	9.19	32.60
20	19.18	31.93			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	11	07:50	68	3	18	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	996.0	25.7		Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.82	31.73	30	10.49	32.56
10	26.69	31.70	50	8.42	32.56
20	25.99	31.67	65	7.24	32.47

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	11	06:10	76			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	995.2	26.2		Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.66	31.69	30	12.08	32.62
10	25.95	31.66	50	9.05	32.66
20	23.98	31.86	70	8.37	32.59

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	11	04:30	84			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	995.5	25.6				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.79	31.75	30	10.98	32.58
10	26.15	31.62	50	8.30	32.86
20	24.70	31.88	80	7.59	32.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	11	02:50	81			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
WNW	3	995.4	25.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.74	31.70	30	11.27	32.79
10	26.42	31.74	50	8.79	32.81
20	24.05	31.95	75	8.11	32.88

10월 (October) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	8	18:30	21	7	3	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
NW	3	1010.7	18.2		Cu	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.17	32.09	15	19.61	32.24
10	19.74	32.22			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	8	16:50	27	6	4	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
NW	3	1010.9	18.6		Cu	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.56	32.09	20	19.80	32.04
10	19.85	32.05	25	19.80	32.03

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	8	15:10	47	4	6	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1011.2	18.7		SC	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.03	31.65	30	17.54	32.27
10	20.45	31.59	45	17.50	32.37
20	18.56	32.01			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	8	13:30	51	4	7	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	4	1011.3	18.5		Ac	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.91	31.57	30	17.55	32.39
10	20.87	31.53	45	17.22	32.51
20	20.77	31.64			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	8	11:50	54	3	11	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	4	1011.5	18.1		Ac	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.67	31.34	30	18.18	32.13
10	20.24	31.30	50	15.88	32.56
20	20.96	31.59			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	8	10:10	60	3	12	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1012.3	17.4		Cu	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.45	31.20	30	15.55	32.60
10	21.55	31.13	55	15.20	32.87
20	18.65	31.98			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	8	08:30	69	2	13	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1012.5	17.0		Cu	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.36	31.23	30	20.10	31.83
10	21.49	31.09	50	15.71	-
20	21.59	31.15	65	14.77	32.77

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	8	06:50	78			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1011.2	16.5			2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.29	31.27	30	18.21	31.95
10	20.36	31.24	50	15.62	32.57
20	20.22	31.29	75	11.57	32.81

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swe
09	8	05:10	85			4	1

Wind		Baro.	Air Temp.		Cloud		Weat
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1000.8	16.6			2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.17	31.30	30	18.57	31.88
10	20.21	31.28	50	15.70	32.54
20	19.54	31.39	80	11.62	32.78

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	8	03:30	82			4	1

Wind		Baro.	Air Temp.		Cloud		Weath
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1010.2	16.9			2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.32	31.26	30	18.15	31.91
10	20.19	31.30	50	15.02	32.64
20	19.36	31.43	80	10.81	32.83

12월 (December)

조사선 천마산 (Chun Ma San

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	6	15:15	24	4	1.2	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1019.5	10.0				F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.82	32.61	20	12.52	32.62
10	12.76	32.59			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	6	16:50	26	4	2.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1018.1	9.5				F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.73	32.64	20	12.61	32.67
10	12.73	32.65			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	6	18:30	42			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1018.2	9.1				F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.61	32.57	30	12.43	32.72
10	12.64	32.60	40	12.27	32.76
20	12.29	32.70			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	6	20:10	49			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1017.0	7.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.61	32.60	30	11.79	32.66
10	11.67	32.64	45	11.72	32.69
20	11.59	32.66			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	6	21:50	53			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1018.2	7.9				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.89	32.51	30	11.04	32.49
10	10.88	32.49	50	10.56	32.74
20	11.89	32.49			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	6	23:20	68			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1017.5	7.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.57	-	30	11.34	32.47
10	10.55	32.51	65	8.59	32.66
20	11.44	32.52			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	7	01:10	70			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1017.2	7.1				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.24	32.51	30	10.95	32.46
10	10.33	32.44	50	7.87	32.79
20	11.23	32.45	65	7.79	32.81

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	7	02:50	77			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
NE	3	1017.5	8.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.82	32.48	30	10.33	32.61
10	9.63	32.46	50	10.42	32.67
20	11.62	32.47	75	7.54	32.78

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	7	04:30	82			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
NE	3	1017.0	7.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.03	32.46	30	9.57	32.68
10	10.21	32.45	50	8.26	32.79
20	11.32	32.50	80	6.94	32.84

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	7	06:10	81			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
direction	Force		Dry	Wet	Type	Amount	
NE	3	1018.5	7.6				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.57	32.50	30	10.42	32.66
10	10.44	32.51	50	8.82	32.78
20	11.38	32.58	75	6.38	32.77

309선 해 양 관 측 성 적

OCEANOGRAPHIC DATA. LINE 309

조사선 한라산 (Han Ra San)

2월 (February)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	10	07:10	30	11	1.5	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1030.3	1.9		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	2.98	32.48	20	3.00	32.55
10	3.07	32.49	25	2.45	32.51

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	10	05:35	45			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1030.4	1.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.40	32.61	30	3.34	32.53
10	3.37	32.62	40	3.35	32.53
20	3.30	32.59			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	10	03:55	54			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1029.0	1.1				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.56	32.65	30	3.70	32.62
10	3.68	32.64	50	3.68	32.66
20	3.62	32.68			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	10	02:15	56			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1028.0	1.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.85	32.72	30	3.96	32.69
10	3.94	32.75	50	4.03	32.71
20	3.86	32.72			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	10	00:35	59			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1027.3	1.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.81	32.80	30	4.05	32.77
10	3.86	32.77	50	4.10	32.79
20	3.77	32.77	65	4.10	32.73

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	9	22:50	64			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1027.7	1.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.10	32.79	30	4.14	32.62
10	4.17	32.73	50	4.30	32.71
20	4.18	32.72	60	4.21	32.80

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	9	21:05	66			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1026.9	1.6				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.37	32.72	30	4.23	32.39
10	4.29	32.75	50	4.24	32.76
20	4.17	32.33	60	4.24	32.80

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	9	19:25	75			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1026.5	1.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.48	32.75	30	4.47	32.81
10	4.43	32.77	50	4.52	32.85
20	4.49	32.80	70	4.41	32.89

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	9	17:45	82	5	8	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1025.4	2.4		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.62	32.79	30	4.70	32.84
10	4.68	32.81	50	4.76	32.80
20	4.64	32.83	80	4.71	32.86

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	9	16:00	88	4	10.5	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	4	1025.5	2.5		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.58	32.72	50	4.94	32.89
10	4.70	32.74	75	4.80	32.92
20	4.79	32.82	85	4.82	32.95
30	4.81	32.81			

4월 (April) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	11	05:50	30			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	3	1017.0	7.5		Ci	3	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.50	32.22	20	6.07	32.26
10	6.44	32.23	25	6.00	32.29

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	11	04:10	44			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
SE	2	1017.0	7.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.98	32.37	30	5.05	32.36
10	5.04	32.37	40	4.94	32.36
20	4.70	32.38			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	11	02:30	56			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1017.0	5.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.95	32.45	30	4.79	32.48
10	4.91	32.46	50	4.75	32.50
20	4.75	32.46			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	00:50	55			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1016.5	5.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	6.04	32.59	30	5.15	32.62
10	5.14	32.62	50	5.01	32.62
20	5.05	32.62			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	10	23:10	71			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1016.5	6.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	6.93	32.62	30	4.86	32.64
10	5.01	32.64	50	4.71	32.64
20	4.84	32.63	65	3.44	32.65

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	21:30	62			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1016.0	6.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.80	32.65	30	4.72	32.74
10	5.39	32.67	50	4.58	32.75
20	5.08	32.72	60	4.31	32.77

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	19:50	66			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1016.5	6.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.54	32.71	30	4.91	32.79
10	5.61	32.72	50	4.58	32.80
20	5.31	32.77	60	4.31	32.83

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	10	18:10	82	5	7	3	

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1016.5	7.0				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.42	32.68	30	4.97	32.77
10	5.41	32.69	50	4.72	32.83
20	5.24	32.71	80	4.04	32.87

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	10	16:30	81米	4	8.1	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1016.5	7.0				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.52	32.84	30	5.04	32.88
10	5.40	32.86	50	5.02	32.93
20	5.41	32.89	75	5.11	32.97

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	10	14:50	89	4	9.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1017.0	7.9		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.89	32.74	50	5.36	32.86
10	5.72	32.72	75	5.13	32.91
20	5.64	32.77	85	5.13	-
30	5.36	32.83			

6월 (June) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	13	10:10	28	5	7.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1002.4	18.5		Cs	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.67	31.83	20	13.13	31.83
10	14.32	31.75	25	12.03	31.91

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	13	11:50	44	4	10	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1002.8	18.2		Cc	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.35	32.06	30	10.39	32.16
10	12.06	32.08	40	10.17	32.21
20	10.70	32.12			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	13	13:30	53	5	9	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1003.0	18.6		Cs	7	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.07	32.10	30	8.07	32.42
10	12.12	32.20	50	8.15	32.43
20	8.50	32.39			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	12	09:30	55	3	13	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	4	995.3	18.3		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.50	31.98	30	7.53	32.52
10	14.14	32.29	50	7.18	32.53
20	7.86	32.50			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	07:50	68	3	13	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	3	995.5	18.0		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.28	32.03	30	6.59	32.57
10	17.72	32.04	50	6.42	32.59
20	9.19	32.52	65	6.30	32.62

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	12	06:10	64			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	4	996.0	17.7		Cc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.11	32.06	30	6.44	32.55
10	17.06	32.09	50	6.33	32.62
20	9.05	32.50	60	6.21	32.69

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	12	04:30	66			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	4	997.5	17.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.45	32.11	30	7.05	32.62
10	17.33	32.13	50	6.27	32.64
20	9.77	32.56	60	6.12	32.71

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	12	02:50	80			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	3	998.4	17.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.30	32.04	30	6.82	32.53
10	17.11	32.12	50	6.15	32.60
20	9.85	32.46	75	6.07	32.63

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	12	01:10	82			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	3	998.7	18.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.19	32.08	30	7.01	32.58
10	16.98	32.05	50	6.55	32.65
20	8.63	32.51	80	6.23	32.67

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	11	23:30	87			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	999.5	18.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.98	32.14	50	6.54	32.67
10	16.44	32.18	75	6.18	32.69
20	8.82	32.58	85	6.15	32.72
30	6.90	32.64			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	11	22:20	29			1	1

Wind		Baro.	Air Temp.		Cloud		Weath
Direction	Force		Dry	Wet	Type	Amount	
SW	2	994.3	24.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.39	32.05	20	21.44	32.52
10	24.07	32.11	25	20.19	32.63

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	12	00:40	45			1	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
N	2	996.0	24.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.72	32.32	30	17.74	32.92
10	23.89	32.49	40	17.83	33.02
20	18.45	32.84			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	13	11:50	54	3	15	1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1002.4	25.4		Sc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.03	32.30	30	15.82	33.03
10	22.98	32.55	50	15.20	33.06
20	17.04	32.96			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	13:30	57	3	16.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	3	1002.3	25.2		Ac	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.81	32.23	30	15.48	32.92
10	24.69	32.26	55	12.47	33.01
20	20.88	-			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	15:10	69	3	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NNW	3	1001.9	25.7		Cu	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	27.30	32.13	30	16.32	32.81
10	26.82	32.06	50	11.19	32.97
20	25.86	32.27	65	10.81	32.97

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	13	16:50	64	3	19	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NNW	3	1002.0	26.5		Cu	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	27.41	31.89	30	16.94	32.88
10	26.50	31.95	50	10.77	32.99
20	25.66	32.17	60	9.48	32.95

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	13	18:30	66	3	18	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NNW	3	1002.2	27.0		Cu	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	27.57	31.78	30	17.17	32.75
10	27.04	31.76	50	10.13	32.85
20	26.00	32.13	60	7.59	32.70

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	13	20:10	82			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1003.1	25.5				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.92	32.12	30	16.52	32.91
10	26.21	32.13	50	10.88	32.90
20	24.63	32.27	80	8.06	32.86

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	13	21:50	82			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1003.9	25.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	27.05	31.87	30	17.10	32.84
10	26.02	31.84	50	9.75	32.72
20	25.04	31.91	80	7.50	32.66

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	13	23:30	88			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1004.3	24.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	27.21	31.98	50	10.82	32.82
10	26.69	-	75	9.11	32.81
20	25.35	32.00	85	7.38	32.77
30	16.64	32.68			

10월 (October) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	11	08:10	31	5	6	3	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	3	1021.0	15.5				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.50	32.10	20	20.47	32.12
10	20.56	32.12	25	20.48	32.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	12	09:50	47	4	8	3	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	3	1021.0	16.7				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.26	31.81	30	19.24	32.01
10	19.84	31.82	45	19.05	32.07
20	19.80	31.88			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	11	11:30	51	3	15	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1021.0	17.6		Cc	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.03	31.82	30	17.76	32.23
10	20.02	31.84	45	17.10	32.33
20	19.85	31.91			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	13:10	56	3	18	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1020.0	18.6		Cc	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.65	31.58	30	16.70	32.48
10	20.42	31.55	50	13.16	32.82
20	20.24	31.70			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	14:50	68	2	20	4	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1021.0	18.5		Cc	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.75	31.54	30	20.23	31.62
10	20.50	31.50	50	18.78	32.52
20	20.42	31.61	65	12.41	32.89

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	11	16:30	65	2	20.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1018.7	19.1		Cu	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.76	31.57	30	13.56	32.72
10	20.69	31.56	50	12.74	32.83
20	18.99	32.00	60	11.71	32.88

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	11	18:10	67			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NNW	3	1019.0	17.3		Sc	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.62	31.59	30	14.21	32.60
10	20.57	31.57	50	12.13	32.87
20	19.01	31.97	65	11.02	32.93

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	11	19:50	81			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N	4	1019.2	17.1				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.65	-	30	15.04	32.50
10	20.54	31.60	50	12.78	32.83
20	18.72	32.04	75	10.26	32.87

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	11	21:30	79			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1019.8	16.8				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.51	31.61	30	14.88	32.55
10	20.43	31.58	50	11.75	32.90
20	18.97	32.01	75	9.63	32.95

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	11	23:10	88			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
ENE	4	1019.5	16.3				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.37	31.55	50	12.92	32.76
10	20.29	-	75	11.08	32.86
20	19.06	31.98	85	9.89	-
30	16.10	32.44			

12월 (December) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
01	11	08:50	21	4	1.3	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1023.1	10.0		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.40	32.59	15	11.18	32.53
10	11.34	32.61			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	11	10:30	38	5	1.8	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NE	3	1023.0	10.8		Cc	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.06	32.62	30	11.92	-
10	11.94	32.62	35	12.09	32.60
20	12.00	32.62			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	11	12:10	50	7	6	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	3	1022.5	11.0		Cs	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.25	32.59	30	12.08	32.62
10	12.07	32.62	45	12.09	32.62
20	12.20	32.61			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	13:50	56	5	9	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
rection	Force		Dry	Wet	Type	Amount	
NW	3	1021.0	12.1		Ci	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.83	32.64	30	11.71	32.65
10	11.76	32.63	50	11.88	32.65
20	11.86	32.65			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	15:30	68	4	11	2	1

Wind		Baro.	Air Temp.		Cloud		Weath
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1020.5	10.8		Ci	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.76	32.62	30	11.46	32.74
10	11.67	32.68	50	11.60	32.78
20	11.75	32.72	65	11.47	32.76

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	11	17:10	62	4	9.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weathe
Direction	Force		Dry	Wet	Type	Amount	
N	3	1021.2	9.4		Sc	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.91	32.61	30	11.55	32.62
10	11.58	32.64	50	11.47	32.70
20	11.66	32.66	60	10.19	32.87

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	11	18:50	65			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1021.5	9.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.14	32.59	30	11.81	32.68
10	12.05	32.57	50	9.21	32.82
20	11.94	32.63	60	9.14	32.84

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	11	20:30	80			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NNE	3	1021.9	9.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.87	32.63	30	9.47	32.77
10	10.92	32.62	50	8.65	32.85
20	10.51	32.67	75	8.51	32.88

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	11	22:10	81			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NE	3	1022.0	9.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.16	32.60	30	11.09	32.71
10	10.91	32.64	50	9.17	32.81
20	11.20	32.69	75	7.52	32.92

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	11	23:50	86			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
irection	Force		Dry	Wet	Type	Amount	
NNW	3	1022.1	9.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.99	32.62	50	8.96	32.84
10	11.01	32.60	75	8.18	32.89
20	10.83	32.65	80	7.35	32.95
30	11.40	32.69			

310선 해 양 관 측 성 적

OCEANOGRAPHIC DATA, LINE 310

2월 (February)　　조사선 한라산 (Han Ra San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	10	12:00	27	10	1.7	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1032.7	3.2		Sc	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	3.28	32.64	20	3.22	32.63
10	3.25	32.66	25	3.10	32.65

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	10	13:35	59	5	7.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1032.5	3.7		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.80	32.82	30	4.56	32.92
10	4.52	32.87	55	4.55	32.88
20	4.56	-			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	10	15:15	70	4	8	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1032.2	2.9		Cs	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.67	32.85	30	4.56	32.86
10	4.64	32.88	50	4.69	32.89
20	4.63	32.89	65	4.62	32.89

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	10	17:05	73	5	3.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1032.0	2.6		Cs	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.11	32.85	30	4.89	32.81
10	5.02	32.82	50	4.90	32.84
20	4.86	32.43	70	4.89	32.83

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	10	18:45	82			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1031.5	2.0		Ci	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.19	32.90	30	5.13	32.84
10	5.21	32.40	50	5.26	32.84
20	5.18	32.83	80	5.20	32.86

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	10	20:30	87			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1030.7	1.9				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.67	32.73	50	5.46	32.78
10	5.47	32.76	75	5.48	32.81
20	5.59	32.74	85	5.44	32.94
30	5.39	32.72			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	10	22:15	92			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1029.5	1.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.48	32.90	50	5.50	32.95
10	5.42	32.96	75	5.52	32.99
20	5.49	32.94	90	5.56	33.03
30	5.46	32.90			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	11	00:05	90			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1029.0	1.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.58	32.95	50	5.47	33.06
10	5.65	32.99	75	5.56	33.08
20	5.63	33.01	85	5.51	33.08
[illegible]	5.42	33.03			

4월 (April) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	11	11:10	28	7	3	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1017.5	11.0		Cc	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.86	32.60	20	5.65	32.44
10	5.70	32.47	25	5.57	32.44

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	11	12:50	58	5	6	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1016.0	11.3		As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.72	32.65	30	5.42	32.69
10	6.09	32.68	55	5.39	32.69
20	5.53	32.68			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	11	14:30	70	4	10.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1015.0	11.9		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.71	32.72	30	5.42	32.73
10	5.67	32.75	50	5.45	32.73
20	5.59	32.75	65	5.42	32.75

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	11	16:10	70	4	9	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1014.5	11.0		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.10	32.78	30	5.69	32.82
10	6.53	32.77	50	5.84	32.84
20	5.98	32.80	65	5.78	32.86

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	11	17:50	83	4	11.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1014.0	9.9		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.37	32.75	30	6.16	32.88
10	7.16	32.76	50	6.11	32.85
20	6.59	32.77	80	6.24	32.88

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	11	19:30	85			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1014.1	9.8		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.86	32.80	50	5.93	32.97
10	6.23	32.86	75	5.84	32.97
20	6.83	32.88	80	5.68	32.97
30	5.92	32.94			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	11	21:10	92			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1014.1	9.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.69	32.86	50	6.53	32.96
10	6.91	32.81	75	6.62	33.02
20	6.36	32.90	90	6.82	33.04
30	6.44	32.90			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	11	22:50	90			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1013.8	9.4				R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.75	32.91	50	6.11	32.93
10	6.57	32.88	75	6.39	32.95
20	6.42	32.92	85	5.93	32.96
30	6.33	32.93			

6월 (June) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	13	18:00	28	5	7	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1003.2	21.5		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.76	32.79	20	13.90	32.61
10	15.05	32.75	25	13.00	32.55

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	19:40	58	5	7	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1003.7	19.9		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.48	33.30	30	11.06	33.19
10	14.30	33.27	55	9.77	32.99
20	13.38	33.40			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	21:20	70			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1004.6	18.9		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.95	32.69	30	10.10	33.19
10	17.50	32.76	50	9.24	33.08
20	12.74	33.50	65	9.17	33.06

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	13	23:00	72			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1005.1	18.4				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.08	32.50	30	10.14	33.18
10	17.37	32.62	50	7.75	32.89
20	13.56	33.32	70	7.29	32.83

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	14	00:40	78			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1005.5	17.9				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.04	32.21	30	11.09	33.44
10	17.07	32.49	50	8.75	33.14
20	12.75	33.20	75	8.56	33.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	14	02:20	86			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1005.8	16.8				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.96	32.28	50	7.68	32.90
10	16.87	32.48	75	7.51	32.88
20	11.05	33.12	80	7.27	-
30	9.88	33.17			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	14	04:00	92			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1006.0	17.2				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.11	32.47	50	7.14	33.21
10	15.72	32.50	75	7.17	33.23
20	9.21	32.99	90	7.06	33.26
30	8.28	33.18			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	14	05:40	90			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1006.5	18.0		Ci	4	B C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.81	32.38	50	7.31	33.26
10	15.08	32.39	75	7.18	33.33
20	8.79	33.03	85	7.20	33.35
30	8.14	33.20			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	14	15:40	27	4	12	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1002.2	25.0		As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.00	32.62	20	20.79	32.83
10	24.12	32.67	25	18.61	32.92

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	14	14:00	58	3	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1002.7	24.8		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.28	32.40	30	16.26	32.94
10	23.32	32.72	55	14.60	33.10
20	19.18	32.83			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	14	12:20	71	2	20	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1003.3	24.3		As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.54	32.21	30	16.67	32.88
10	26.48	32.17	50	13.76	33.11
20	22.69	32.38	65	13.64	33.12

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	14	10:40	72	3	18.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1004.0	24.3		Cs	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.60	32.26	30	17.05	32.81
10	26.53	32.22	50	13.48	33.05
20	22.05	32.51	70	11.82	33.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	14	09:00	82	3	17	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1004.0	24.4		Ci	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.78	32.24	30	18.50	32.91
10	26.88	32.21	50	12.10	33.08
20	22.75	32.52	80	8.14	32.72

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	14	07:20	87	3	16	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1004.0	23.5		Ci	5	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	27.10	32.21	50	11.87	33.13
10	26.59	32.14	75	9.05	32.88
20	23.34	32.40	85	8.31	32.83
30	18.00	32.95			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	14	05:40	92			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1003.5	23.0		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.99	32.34	50	10.90	33.16
10	26.19	32.25	75	9.22	32.86
20	21.40	32.62	90	7.81	32.76
30	17.32	33.02			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	14	04:00	90			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1003.2	23.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.90	32.28	50	10.32	33.08
10	26.49	32.29	75	8.42	32.96
20	22.41	32.55	85	8.04	32.95
30	18.11	32.93			

10월 (October) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	12	15:20	23	8	3	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1016.6	17.6		Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.70	32.05	20	19.08	32.10
10	19.86	32.04	25	19.08	32.13

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	12	13:40	55	5	9	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1017.2	18.0		Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.59	32.08	30	19.45	32.24
10	19.79	32.06	50	14.89	32.59
20	19.23	32.02			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	12:00	69	4	16	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1018.2	17.8		Cc	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.15	31.82	30	18.07	32.18
10	20.07	31.75	50	15.08	32.55
20	19.99	31.81	65	13.06	32.78

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	12	10:20	70	3	19	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
W	2	1018.8	17.4		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.33	31.13	30	16.95	32.24
10	21.37	31.03	50	11.35	32.89
20	21.15	-	65	10.19	33.00

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	12	08:40	78	3	21	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	2	1019.0	17.0		Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.46	31.00	30	14.52	32.54
10	21.59	30.96	50	9.44	33.00
20	21.36	31.15	75	9.39	33.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	12	07:00	84	2	23	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
WNW	3	1018.2	15.7		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.58	30.95	50	10.48	32.82
10	21.55	30.92	75	9.32	-
20	21.06	31.10	80	9.06	32.96
30	15.10	32.45			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	12	05:20	90			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1018.7	15.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.49	30.99	50	10.13	32.87
10	21.09	31.04	75	9.47	32.90
20	20.88	31.18	85	8.58	33.01
30	15.25	32.33			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	12	03:40	89			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1019.0	15.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.63	30.91	50	9.91	32.91
10	21.41	30.97	75	9.13	32.96
20	20.97	31.15	85	8.81	32.98
30	14.44	32.41			

12월 (December) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	12	16:00	27	9	2.0	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NNE	3	1020.4	11.5		Ci	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.68	32.68	20	10.65	32.64
10	10.56	32.65	25	10.60	32.62

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	12	14:20	58	6	4.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NNE	3	1020.0	12.8		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.17	32.79	30	12.34	32.79
10	12.32	-	55	12.16	32.82
20	12.30	32.79			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	12:40	68	5	6	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1021.1	11.5		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.17	32.60	30	12.04	32.65
10	12.00	32.60	50	11.80	32.81
20	12.19	32.61	65	11.80	32.85

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	12	11:00	70	4	9	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1021.9	10.4		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.09	32.59	30	11.27	32.72
10	12.19	32.56	50	10.78	33.04
20	11.99	32.60	65	10.88	33.09

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	12	09:20	77	5	7.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
ENE	3	1022.2	9.5		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.17	32.52	30	12.12	32.71
10	12.32	32.49	50	10.86	32.93
20	12.25	32.53	75	9.70	33.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	12	07:40	85	5	6	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1021.8	9.4		Sc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.10	32.49	50	10.07	32.76
10	12.23	32.47	75	9.29	32.89
20	10.90	32.57	80	9.11	33.04
30	11.03	32.59			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	12	06:00	91			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NNE	3	1021.2	10.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.25	32.56	50	9.17	32.83
10	11.47	32.57	75	9.02	32.92
20	11.11	32.60	85	8.50	32.99
30	10.95	32.68			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	12	04:20	83			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1021.1	10.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.00	32.51	50	8.19	32.86
10	11.59	32.53	75	8.15	32.89
20	11.17	32.56	85	7.84	33.02
30	9.20	32.74			

311선 해 양 관 측 성 적

OCEANOGRAPHIC DATA, LINE 311

2월 (February)　　조사선 한라산 (Han Ra San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	12	14 35	35	8	2.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1023.1	5.5		Cc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.18	32.85	20	4.37	33.11
10	4.61	32.95	30	4.28	32.86

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	12 50	74	9	2	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1023.1	6.0		Cc	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.55	32.98	30	4.65	32.94
10	4.67	32.92	50	4.73	32.99
20	4.59	32.61	70	4.75	33.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	11	13 10	90	5	7.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SSW	4	1029.7	4.6		Cs	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	4.90	32.78	50	4.95	32.99
10	4.86	32.96	75	5.00	32.96
20	4.89	32.97	85	4.95	33.05
30	4.97	32.97			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	11	10:35	90	7	3.8	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SSW	4	1030.5	3.7		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.36	32.88	50	5.40	32.83
10	5.47	32.98	75	5.35	32.96
20	5.30	-	85	5.48	32.98
30	5.42	32.82			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	11	08:50	93	7	3.0	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SSW	4	1030.1	3.0		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.41	32.96	50	5.37	32.89
10	5.48	32.92	75	5.42	32.94
20	5.39	32.82	90	5.34	32.86
30	5.39	32.89			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	11	07:05	83			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SSW	4	1029.5	2.8		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.61	33.04	50	5.69	33.12
10	5.53	33.10	75	5.86	33.18
20	5.56	33.13	80	5.98	33.20
30	5.75	33.14			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	11	05:20	84			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SSW	4	1029.3	2.1		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.66	32.91	30	5.83	33.11
10	5.95	32.93	50	5.78	33.13
20	5.77	33.07	80	5.82	33.14

4월 (April) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	11:40	38	8	2.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	2	1020	16.8		As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.70	33.75	20	9.25	33.85
10	9.49	33.83	35	9.19	33.85

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	10:00	78	7	3.5	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	4	1013.0	11.7		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.19	32.72	30	6.10	32.79
10	6.13	32.70	50	6.26	32.88
20	6.19	32.80	75	6.85	33.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	12	12:10	89	7	3	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1009.7	9.5		Ns	10	F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.06	32.87	50	6.39	32.81
10	6.65	32.94	75	6.24	32.98
20	6.49	32.99	85	6.30	33.01
30	6.32	33.00			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	12	09:30	92	5	6.5	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1010.3	8.4		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.21	32.87	50	6.37	33.02
10	6.70	32.88	75	6.48	33.11
20	6.09	32.90	90	6.71	33.23
30	6.12	32.92			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	12	07:40	90	5	7	4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1009.7	9.0		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.04	32.88	50	6.40	32.89
10	8.06	32.84	75	6.30	32.90
20	6.66	32.87	85	6.37	32.90
30	6.43	32.88			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	12	05:50	80			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	6	1010.5	9.5				R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.91	32.86	30	6.92	32.88
10	8.23	32.89	50	7.02	32.93
20	6.89	32.85	75	7.11	32.99

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	12	04:10	85			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	5	1011.7	9.2				R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	8.96	32.75	30	6.88	32.88
10	8.31	32.79	50	6.73	32.98
20	6.94	32.86	80	7.09	33.05

6월 (June) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	15	10:30	37	8	3	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
S	3	1002.5	17.7		NS	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.10	33.50	20	15.02	33.54
10	15.05	33.53	35	14.42	33.54

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	15	08:50	74	8	3	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
ESE	3	1003.9	16.3		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.75	33.54	30	13.07	33.56
10	13.72	33.56	50	13.07	33.59
20	13.16	33.58	70	12.89	33.59

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	14	18:10	75	5	6	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
WSW	3	1005.3	20.3		As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.39	33.19	30	12.81	33.60
10	15.63	33.20	50	12.44	33.63
20	12.85	33.55	70	11.60	33.66

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	14	16:00	90	4	10	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1005.5	19.6		Ci	5	BO

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.58	33.16	50	10.83	33.73
10	15.92	33.15	75	10.13	33.85
20	14.39	33.23	85	10.00	33.87
30	12.28	33.36			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	14	14:20	92	4	12	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1006.3	19.3		Ci	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.78	32.57	50	11.45	33.69
10	14.26	32.58	75	10.39	33.83
20	13.50	33.34	90	10.09	33.88
30	12.20	33.55			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	14	12:40	82	3	14	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1006.3	19.1		Ci	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.74	32.81	30	12.09	33.52
10	15.49	32.84	50	10.98	33.78
20	14.05	33.08	80	10.05	33.82

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	14	11:00	84	3	13	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1006.6	18.6		Cc	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	17.45	32.70	30	11.61	33.42
10	15.14	32.82	50	10.86	33.65
20	13.79	33.00	80	10.19	33.71

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	14	21:00	34			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1001.1	24.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.71	32.58	20	18.07	32.76
10	20.55	32.54	30	16.35	32.87

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	14	22:40	75			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SW	3	1009.8	24.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.36	32.46	30	16.99	32.68
10	19.82	32.53	50	15.68	32.81
20	18.86	32.63	70	14.42	32.89

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	17	09:40	90	4	10	1	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	2	1003.1	23.1		Ns	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.35	32.62	50	14.28	32.98
10	18.32	32.69	75	13.39	33.03
20	16.62	32.85	85	13.13	33.06
30	16.33	32.88			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	17	12:10	90	3	16	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1002.8	26.5		Cc	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.39	31.75	50	10.25	33.17
10	22.08	32.15	75	10.10	33.19
20	18.22	32.60	85	10.05	33.21
30	15.92	32.85			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	17	13:50	93	3	18	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1002.7	26.1		Ac	7	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.95	31.72	50	10.62	33.19
10	22.82	32.12	75	10.07	33.22
20	18.95	32.56	90	9.24	33.09
30	15.07	32.89			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	17	15:40	83	2	20	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1002.6	26.8		Sc	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.29	31.79	30	16.11	32.75
10	23.10	32.21	50	10.14	33.14
20	20.06	32.46	80	8.47	32.98

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	17	17:20	84	3	18	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1002.5	27.5		Sc	8	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.72	31.86	30	14.78	32.91
10	22.21	32.27	50	9.92	33.04
20	18.81	32.68	80	8.87	33.06

10월 (October) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	12	20:40	31			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
WNW	4	1016.0	17.4				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.77	32.30	20	17.82	32.34
10	17.94	32.31	25	17.48	32.40

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	22:20	76			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1016.3	17.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.40	31.60	30	18.05	31.94
10	19.99	31.64	50	17.06	32.16
20	18.74	31.83	70	15.60	32.51

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	13	10:10	79	2	25	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1018.7	19.2				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.43	30.86	30	18.57	31.84
10	21.27	30.79	50	15.37	32.37
20	21.05	31.15	75	12.28	32.85

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	13	12:40	86	2	27	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	2	1017.8	19.0				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.16	31.00	50	12.84	32.81
10	20.97	30.97	75	9.18	33.08
20	20.95	31.17	80	9.09	33.12
30	20.87	31.39			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	13	14:20	90	3	19	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N	3	1016.7	19.6				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.62	-	50	13.24	32.66
10	21.18	30.90	75	9.27	32.94
20	20.84	31.24	85	8.68	33.00
30	20.33	31.42			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	13	16:00	86	3	16	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NNW	3	1015.5	19.9				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.92	30.89	50	12.71	32.74
10	21.05	30.92	75	8.79	32.98
20	20.69	31.27	80	8.07	33.07
30	20.18	31.48			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	13	17:40	82	4	14	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1015.7	19.5				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	21.70	30.96	30	19.21	31.63
10	21.29	-	50	11.96	32.86
20	20.92	31.35	80	8.35	33.03

12월 (December) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	12	21:20	32			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1022.0	12.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.60	32.74	20	11.60	32.86
10	11.69	32.72	30	11.80	32.78

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	12	23 00	76			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N	3	1022.2	9.3				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.29	32.79	30	12.29	32.82
10	12.14	32.81	50	12.27	32.85
20	12.20	32.82	70	12.15	32.85

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	13	09 10	84	5	5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1024.0	11.6		Ci	2	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.92	32.81	50	12.00	32.84
10	11.96	32.82	75	12.06	32.88
20	11.91	32.81	80	12.08	32.86
30	11.90	32.84			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	13	11 40	87	4	9	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1024.2	12.6		Ci	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.30	32.62	50	12.41	32.80
10	12.37	32.61	75	10.70	33.17
20	12.47	32.61	85	10.60	33.16
30	12.46	32.61			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	13	13:20	91	4	9.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1024.0	11.6		Cc	3	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.11	32.59	50	12.25	32.83
10	12.17	32.58	75	10.57	33.11
20	12.25	32.62	85	10.32	33.13
30	12.26	32.64			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	13	15:00	81	4	10	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1023.0	12.5		Cu	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.32	32.63	30	12.24	32.68
10	12.36	32.64	50	12.26	32.87
20	12.19	32.66	75	10.38	33.08

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	13	16:40	85	4	9	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1022.4	11.9		Sc	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.28	32.60	30	12.26	32.64
10	12.25	32.62	50	11.52	32.89
20	12.31	32.62	80	9.86	-

312선 해 양 관 측 성 적
OCEANOGRAPHIC DATA, LINE 312

2월 (February) 조사선 한라산 (Han Ra San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	12	21 :00	77			4	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1023.2	4.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.89	33.68	30	7.76	33.80
10	7.87	33.76	50	8.09	33.83
20	7.84	33.13	75	8.18	33.84

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	12	22 :40	85			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1023.4	3.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	7.95	33.83	30	8.19	33.92
10	8.04	33.84	50	8.36	34.01
20	8.07	33.26	80	8.43	34.05

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	13	00 :15	65			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1023.6	2.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.64	-	30	6.04	33.35
10	5.73	33.19	50	6.08	33.35
20	6.13	33.33	60	5.97	33.27

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	13	02:00	75			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1023.9	2.6				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.60	33.11	30	7.54	33.57
10	5.86	33.20	50	9.00	34.00
20	6.05	-	70	9.01	34.04

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	13	03:45	96			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	4	1023.5	3.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	5.71	33.19	50	5.59	33.09
10	5.74	31.82	75	5.38	33.11
20	5.73	33.03	90	5.26	32.98
30	5.57	33.09			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	13	06:15	92			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1023.4	3.8		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	6.31	33.15	50	6.77	33.29
10	6.44	32.96	75	6.83	33.27
20	6.46	33.22	90	6.89	33.40
30	6.52	33.24			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	13	08:00	86	6	5.5	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1023.2	4.5		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	6.64	33.17	50	7.33	33.24
10	6.71	33.19	75	7.23	33.31
20	6.74	33.23	80	7.31	33.45
30	6.96	33.26			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	13	09:45	90	5	7.0	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	5	1023.5	5.9		Cs	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	6.82	33.20	50	7.41	33.28
10	6.86	33.23	75	7.48	33.32
20	6.91	33.23	85	7.56	33.48
30	7.49	33.26			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	13	11:35	77	4	8.5	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	6	1024.5	4.6		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	6.76	33.22	30	7.27	33.27
10	6.96	33.26	50	7.30	33.30
20	7.02	33.29	75	7.44	33.35

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	14	08:40	77	7	4.5	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1008.2	13.2		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.64	34.28	30	10.56	34.32
10	11.75	34.37	50	10.23	34.29
20	11.27	34.34	75	10.09	34.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	14	10:40	86	8	4	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1007.5	14.0		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	11.71	34.21	50	10.10	34.24
10	11.20	34.19	75	9.99	34.24
20	10.62	34.24	80	10.09	34.24
30	10.34	34.22			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	14	12:30	81	7	4	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	5	1006.0	14.7		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.78	34.01	30	8.88	33.83
10	10.29	33.99	50	9.06	33.96
20	8.91	33.92	75	9.59	34.08

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	14	14:20	73	7	4	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	6	1004.6	14.6		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.22	33.90	30	8.92	33.86
10	9.46	33.86	50	9.08	33.96
20	8.69	33.81	70	9.69	34.11

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	14	16:00	100	5	6	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	6	1002.6	13.0		NS	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.03	34.28	50	9.79	34.30
10	11.66	34.32	75	9.69	34.30
20	11.25	34.30	95	9.79	34.26
30	10.70	34.30			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	14	18:50	94	6	5	5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	6	1001.4	13.2		Ns	10	R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.37	34.01	50	9.60	34.13
10	10.16	33.98	75	9.67	34.19
20	10.21	34.01	90	9.70	34.24
30	10.08	34.04			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	14	20:40	89			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	6	1000.0	12.5				R

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.17	34.04	50	9.39	34.22
10	10.35	33.99	75	9.40	34.25
20	9.98	34.06	85	9.35	34.26
30	9.40	34.18			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	14	22:20	88			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	7	1000.2	11.7				F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	10.08	33.96	50	9.21	34.09
10	9.67	33.94	75	9.19	34.20
20	9.71	34.01	85	9.22	34.24
30	9.75	34.04			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	14	24:00	77			5	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	7	1000.5	11.4				F

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	9.96	33.94	30	9.53	34.10
10	9.72	33.97	50	9.18	34.13
20	9.55	33.99	75	9.18	34.18

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	16	07:40	74	3	14	2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	3	1000.3	17.8		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.60	32.74	30	15.54	33.15
10	16.61	32.75	50	12.83	33.65
20	16.53	32.89	70	11.88	33.76

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	16	09:20	85	4	12	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
ENE	3	1000.8	17.9		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.69	32.64	30	14.48	33.26
10	16.57	32.56	50	11.57	33.83
20	16.69	32.62	80	11.56	33.89

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	16	11:00	69	4	13	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1001.1	17.9		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.59	32.81	30	12.97	33.62
10	16.40	32.84	50	11.89	33.79
20	15.23	33.32	65	11.26	33.85

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	16	12:40	78	3	15	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1000.8	18.4		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.83	32.77	30	13.70	33.49
10	16.94	32.72	50	10.89	33.89
20	16.10	32.67	75	10.96	33.92

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	16	14:20	103	4	13	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1000.6	18.4		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.50	33.11	50	10.99	33.90
10	16.17	33.10	75	10.64	33.94
20	16.11	33.10	100	10.18	33.92
30	12.79	33.37			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	16	17:00	96	4	13.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
SE	3	1000.7	18.5		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.50	32.87	50	11.30	33.72
10	15.65	33.08	75	9.75	33.81
20	14.78	33.31	90	9.23	33.84
30	13.71	33.48			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	16	18:40	92	3	15	3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1001.2	17.3		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.70	32.80	50	10.29	33.72
10	16.70	32.71	75	9.50	33.81
20	16.74	32.80	90	9.48	33.83
30	14.08	32.98			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	16	20:20	88			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1001.9	17.5		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.47	32.77	50	10.53	33.74
10	15.63	32.93	75	9.68	33.82
20	14.97	33.13	85	9.34	33.87
30	13.49	33.36			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	16	22:00	79			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1002.3	17.2		Ns	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.62	32.82	30	12.99	33.33
10	16.07	32.84	50	10.11	33.71
20	15.12	32.95	75	9.70	33.76

8월 (August) 조사선 천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	18	13:00	76	5	9	2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	3	1005.3	26.9		As	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.05	29.58	30	15.05	32.60
10	19.62	31.08	50	13.85	32.94
20	15.76	32.43	70	11.89	-

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	18	11:20	84	5	9.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	3	1005.6	26.5		As	10	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.62	29.13	30	14.40	32.99
10	19.19	32.21	50	12.46	33.21
20	15.75	32.81	80	11.72	33.32

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	18	09:40	68	4	11	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	3	1005.4	26.2		Ns	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	23.19	30.20	30	16.98	32.83
10	19.96	32.14	50	13.05	33.18
20	18.10	32.61	70	11.28	33.83

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	18	08 00	76	3	16	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1004.8	25.7		Ns	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.27	32.40	30	16.09	32.91
10	19.62	32.57	50	13.78	33.10
20	16.54	32.85	70	11.03	33.34

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	18	06 : 20	97	3	18	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1004.6	25.1		Sc	9	C

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.94	29.37	50	15.02	33.01
10	21.60	31.03	75	10.38	33.35
20	20.87	31.66	95	10.30	-
30	18.33	32.63			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	18	03 : 40	91			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1004.2	24.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	24.99	29.72	50	12.40	33.18
10	22.00	30.26	75	9.82	33.41
20	17.20	32.47	85	9.58	33.44
30	16.00	32.76			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	18	02:00	92			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1004.0	25.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.35	29.56	50	12.09	33.13
10	21.88	30.97	75	10.12	33.31
20	17.85	32.45	90	9.70	33.40
30	16.81	32.67			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	18	00:20	88			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1003.7	25.3			4	2

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	25.76	29.83	50	11.56	33.10
10	23.01	30.48	75	9.64	33.38
20	19.12	32.29	85	9.21	33.50
30	16.35	32.70			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	17	22:40	78			2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NW	3	1003.4	25.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	26.02	30.07	30	15.99	33.05
10	22.03	30.79	50	10.59	33.41
20	18.16	32.39	75	8.96	33.47

10월 (October)　　조사선　천마산 (Chun Ma San)

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	14	13 : 20	74	4	5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1013.7	19.0		Ci	6	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.86	32.59	30	13.35	33.02
10	15.21	32.80	50	11.76	33.12
20	14.50	32.92	70	11.53	33.21

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	14	11 : 40	80	5	4.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1015.2	18.3		Ci	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	15.94	32.72	30	12.98	32.98
10	15.01	32.80	50	11.84	33.07
20	14.19	32.89	75	11.83	33.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	14	10 : 00	68	4	7	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1017.0	18.1		Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	18.96	32.17	30	15.22	32.74
10	18.69	32.13	50	11.75	33.06
20	16.36	32.53	65	11.43	33.14

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	14	08:20	73	4	12.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1016.4	17.5				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.40	31.90	30	15.35	32.57
10	18.42	32.17	50	10.97	33.18
20	17.60	32.31	70	11.11	33.25

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	14	06:40	100			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1015.6	17.1		Ci	1	B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	20.07	32.56	50	14.16	32.89
10	20.24	32.65	75	10.35	-
20	20.09	32.68	95	10.28	33.31
30	19.89	32.64			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	14	04:00	93			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1015.0	17.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.83	32.56	50	14.90	32.86
10	18.49	32.43	75	11.23	33.10
20	17.68	32.49	90	10.44	33.19
30	16.97	32.62			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	14	02:20	89			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	4	1015.6	17.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.15	32.11	50	14.69	32.81
10	18.41	32.23	75	9.59	33.17
20	18.00	32.23	85	9.68	33.19
30	18.00	32.49			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	14	00:40	87			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N	4	1016.0	17.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.59	32.15	50	14.06	32.93
10	18.73	32.29	75	9.79	-
20	18.10	32.42	85	9.18	33.14
30	17.12	32.57			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	13	23:00	81			3	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
N	4	1016.3	17.4				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	19.97	32.06	30	16.91	32.63
10	18.52	32.25	50	13.09	32.98
20	17.79	32.36	75	9.04	33.22

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
02	14	12:20	72	10	0.7	2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
ENE	3	1021.5	13.3				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.80	33.34	30	13.84	33.38
10	13.93	33.36	50	13.78	33.37
20	13.96	33.38	70	13.63	∓ -

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
03	14	10:40	82	8	1	2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	3	1022.3	12.9				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.64	33.10	30	12.60	33.11
10	12.60	33.11	50	12.89	33.11
20	12.65	33.11	80	13.04	33.16

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
04	14	09:00	65	8	1.2	2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
E	3	1022.5	12.6				B

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	12.72	33.16	30	12.62	33.09
10	12.66	33.10	50	12.54	33.07
20	12.68	33.08	60	12.49	33.07

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
05	14	07:20	75	7	1.5	2	1

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
ENE	3	1022.1	12.0		Sc	4	BC

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	16.47	34.10	30	16.66	34.16
10	16.60	34.15	50	16.44	34.15
20	16.69	34.16	70	15.50	-

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
06	14	05:40	100			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1021.8	12.2				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.74	33.69	50	13.75	34.10
10	15.23	33.72	75	13.70	33.56
20	15.18	33.60	95	13.42	33.58
30	14.55	33.61			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
07	14	03:00	90			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1022.0	12.5				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	14.17	33.09	50	13.74	33.47
10	14.05	33.10	75	11.68	33.32
20	14.28	33.07	85	11.48	33.28
30	13.98	33.09			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
08	14	01:20	90			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1022.2	11.7				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.10	32.68	50	12.72	33.18
10	13.05	32.61	75	11.32	33.25
20	13.18	32.66	85	11.27	33.28
30	13.14	-			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
09	13	23:40	85			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1022.5	10.8				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.00	32.70	50	12.27	33.05
10	13.21	32.68	75	11.22	33.16
20	13.19	32.69	80	11.05	33.19
30	13.13	32.75			

St. No.	Date	Time	Depth	Water Color	Water Trans.	Wave	Swell
10	13	22:00	82			2	2

Wind		Baro.	Air Temp.		Cloud		Weather
Direction	Force		Dry	Wet	Type	Amount	
NE	3	1022.6	12.0				

Z m	T ℃	S ‰	Z m	T ℃	S ‰
0	13.16	32.66	30	13.20	32.80
10	13.13	-	50	13.08	33.12
20	13.14	32.72	80	10.84	33.21

제 3 편

한일공동해양관측성적

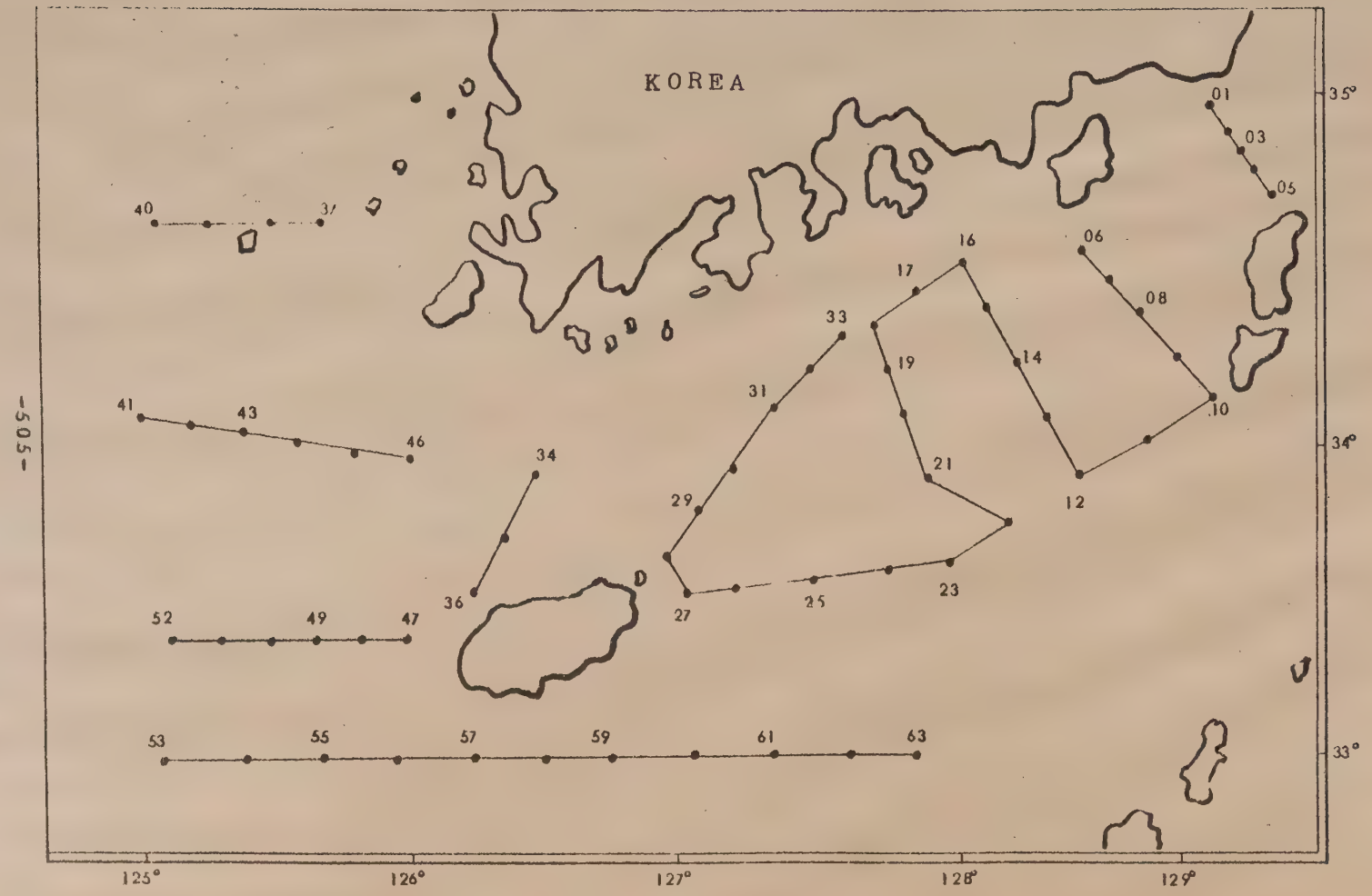
PART 3

KOREA-JAPAN COOPERATIVE OCEANOGRAPHIC DATA

1 9 7 7

한일공동 해양관측점 위치도

Location of the Oceanographic Stations



한일공동 해양관측점 위치표

Position of the Oceanographic Stations

St.No.	Latitude	Longitude	St.No.	Latitude	Longitude	St.No.	Latitude	Longitude
01	35°01.3′N	129°07.2′E	22	33°44.3′N	128°23.9′E	43	34°02.6′N	125°30.0′E
02	34°57.6′	129°11.2′	23	33°37.3′	128°09.2′	44	34°01.3′	125°42.0′
03	34°53.9′	129°15.4′	24	33°35.6′	127°51.9′	45	33°59.8′	125°54.0′
04	34°50.2′	129°19.5′	25	33°33.6′	127°34.0′	46	33°58.5′	126°06.0′
05	34°48.0′	129°21.8′	26	33°31.7′	127°11.8′	47	33°24.4′	126°00.0′
06	34°35.5′	128°34.5′	27	33°30.3′	127°04.5′	48	33°24.4′	125°48.0′
07	34°29.6′	128°41.2′	28	33°35.8′	127°03.2′	49	33°24.4′	125°36.0′
08	34°22.4′	128°49.7′	29	33°45.5′	127°09.2′	50	33°24.4′	125°24.0′
09	34°15.3′	128°58.0′	30	33°54.1′	127°15.2′	51	33°24.4′	125°12.0′
10	34°08.1′	129°06.3′	31	34°06.7′	127°26.8′	52	33°24.4′	125°00.0′
11	33°58.3′	128°54.0′	32	34°13.7′	127°35.4′	53	33°00.0′	125°00.0′
12	33°51.7′	128°39.0′	33	34°20.8′	127°43.9′	54	33°00.0′	125°18.0′
13	34°04.6′	128°30.0′	34	33°56.6′	126°31.4′	55	33°00.0′	125°36.0′
14	34°13.5′	128°24.0′	35	33°47.5′	126°26.3′	56	33°00.0′	125°54.0′
15	34°22.2′	128°18.4′	36	33°38.3′	126°21.3′	57	33°00.0′	126°12.0′
16	34°31.0′	128°12.2′	37	34°43.0′	125°43.9′	58	33°00.0′	126°30.0′
17	34°27.0′	128°00.5′	38	34°43.0′	125°31.9′	59	33°00.0′	126°48.0′
18	34°22.3′	127°48.5′	39	34°43.0′	125°19.4′	60	33°00.0′	127°06.0′
19	34°15.0′	127°52.1′	40	34°43.0′	125°00.0′	61	33°00.0′	127°24.0′
20	34°05.5′	127°56.9′	41	34°05.5′	125°00.0′	62	33°00.0′	127°42.0′
21	33°51.5′	128°03.0′	42	34°04.1′	125°18.0′	63	33°00.0′	128°00.0′

한 일 공 동 해 양 조 사 성 적

Oceanographic Data

Month		2 월 (February)				조사선 태백산 (Tae Baek San)	
St.No.		11	12	13	14	15	16
Date		12	12	12	12	12	12
Item	Time / Z(m)	03:40	02:00	05:50	07:00	08:10	10:00
T	0	13.17	12.87	12.32	12.80	12.94	10.01
	10	13.17	13.17	12.43	13.05	13.36	10.03
	20	13.23	13.17	12.32	13.02	13.34	10.01
	30	13.20	13.10	12.27	12.85	13.09	10.00
	50	13.17	13.50	11.90	12.50	12.31	
	75	13.01	12.59	11.55	11.60		
	100	12.65					
℃							
			(95m)	(95 m)	(84 m)	(67 m)	(41 m)
	Bottom		12.58	11.08	10.30	12.07	9.97
S	0	34.77	34.44	34.54	34.50	-	34.44
	10	34.69	34.60	34.62	34.71	34.42	34.49
	20	34.49	34.61	34.64	34.71	34.59	34.46
	30	34.40	34.66	34.56	34.71	34.66	34.46
	50	34.40	34.64	34.56	34.64	34.73	
	75	34.62	34.64	34.45	34.53		
	100	34.50					
‰							
			(95m)	(95m)	(84 m)	(67 m)	(41 m)
	Bottom		34.78	34.34	34.56	34.54	34.52
Depth(m)		105	100	100	87	70	44
Water Trans.							9
Water Color							4
Wave							3
Swell							1
Air Temp.(℃)		10.0	9.6	10.5	10.6	9.6	7.5
Baro.(mb)		1022	1022	1022	1022	1022	1022
Wind		SW3	SW3	SW3	SW3	SW3	SW3
Cloud							As3
Weather							BC

Month		2 월 (February)					
St.No.		17	22	24	25	26	27
Date		12	12	7	7	7	7
Item	Time / Z(m)	09:20	00:20	14:00	12:15	09:50	08:50
T	0	10.86	13.60	12.83	12.69	13.10	13.61
	10	10.94	13.67	12.58	12.89	14.16	14.13
	20	10.92	13.77	12.65	13.05	14.14	14.25
	30	10.88	13.79	12.31	12.97	14.15	14.22
	50		13.62	12.10	13.22	14.15	14.24
	75		12.94	11.65	12.44	14.09	14.29
	100					13.99	14.32
℃							
		(41 m)	(95m)	(92 m)	(95m)	(117 m)	(122 m)
	Bottom	10.50	12.91	11.50	11.81	13.90	14.31
S	0	34.29	34.40	34.19	34.21	34.33	34.39
	10	34.48	34.75	34.31	34.21	34.59	34.45
	20	34.43	34.66	34.11	34.29	34.39	34.41
	30	34.70	34.66	34.50	34.20	34.59	34.38
	50		34.73	34.24	34.15	34.38	34.46
	75		34.73	34.11	34.40	34.17	34.48
	100					34.27	34.58
‰							
		(41 m)	(95m)	(92 m)	(95m)	(117 m)	(122 m)
	Bottom	34.55	34.73		34.45	34.37	34.58
Depth(m)		44	100	95	100	120	125
Water Trans.		8		19	19	15	15
Water Color		4		3	3	3	3
Wave		3		3	3	3	3
Swell		1		1	1	1	1
Air Temp.(℃)		8.2	8.7	7.4	8.6	4.5	4.3
Baro.(mb)		1022	1023	1025	1025	1025	1025
Wind		SW3	SW3	NW4	NW5	NW5	NW5
Cloud		As3		Cs10	Ns8	Ns8	Ns8
Weather		BC		C	C	C	C

Month		4 월 (April)			조사선 태백산 (Tae Baek San)		
St.No.		11	12	13	14	15	16
Date		13	13	13	13	13	13
Item	Time / Z(m)	13:55	15:45	11:50	10:40	09:25	07:15
T	0	15.96	16.13	15.23	14.27	13.10	12.03
	10	15.81	16.12	15.18	14.22	12.91	11.60
	20	15.85	16.08	15.14	14.21	12.73	11.44
	30	15.67	16.06	14.80	13.88	12.67	10.95
	50	15.50	15.66	14.32	12.39	11.65	
	75	15.24	15.11	14.10	12.22		
	100	14.49	14.82				
℃				(94m)		(62m)	(42m)
	Bottom			12.91		11.04	10.50
S	0	34.62	34.64	34.49	34.40	-	34.20
	10	34.61	34.64	34.56	34.47	34.38	34.13
	20	34.64	34.67	34.58	34.49	34.39	34.12
	30	-	34.67	34.55	34.49	34.38	34.13
	50	34.64	34.65	34.55	34.43	34.31	
	75	34.64	34.64	34.56	34.39		
	100	-	34.63				
‰				(94m)		(62m)	(42m)
	Bottom			-		34.31	34.16
Depth(m)		105	103	97	82	65	45
Water Trans.		12	17	10	10	8	9
Water Color		7	4	8	8	5	3
Wave		3	3	0	0	0	0
Swell		1	1	1	1	1	0
Air Temp.(℃)		16.0	15.5	15.0	16.0	14.0	12.6
Baro.(mb)		1011	1011	1014.5	1015	1014.8	1014
Wind		NE3	NE3	NE1	NE1	NE1	0
Cloud		As10	As10	Cs10	Cs8	Cs5	Cs5
Weather		C	C	C	C	BC	BC

Month		4월 (April)					
St.No.		17	22	24	25	26	27
Date		13	13	16	16	16	16
Item	Time / Z(m)	08:00	17:30	22:10	20:30	18:30	17:50
T (℃)	0	12.75	16.18	16.08	16.51	16.07	15.91
	10	12.45	16.16	16.11	16.66	16.11	15.93
	20	12.26	16.11	16.09	16.62	16.10	15.90
	30	11.95	16.07	16.01	16.66	16.08	15.83
	50		16.05	15.90	16.55	16.02	15.61
	75		15.87	15.52	15.12	15.50	14.36
	100		15.00			14.51	14.07
		(42m)		(95m)	(95m)	(127 m)	(117 m)
	Bottom	11.60		14.29	14.23	14.51	13.85
S (‰)	0	34.25	34.64	34.66	34.65	34.60	34.61
	10	34.26	34.65	34.62	34.65	34.61	34.63
	20	34.30	34.65	34.61	34.65	34.63	34.62
	30	34.30	34.65	34.63	34.65	34.61	34.62
	50		34.67	34.62	34.65	34.60	34.61
	75		34.67	34.63	34.64	34.62	-
	100		34.65			34.58	34.48
		(42m)		(95m)	(95m)	(127m)	(117 m)
	Bottom	34.28		34.58	34.58	34.58	34.52
Depth(m)		45	103	100	100	130	120
Water Trans.		9	18				
Water Color		7	3				
Wave		0	3				4
Swell		0	1				1
Air Temp.(℃)		13.0	16.0	15.5	15.5	16.5	16.5
Baro.(mb)		1014	1011	1009	1009	1009	1009
Wind		0	NE2				NW5
Cloud		Cs5	As8				Ci2
Weather		BC	C				B

Month		6 월 (June)			조사선 태백산(Tae Back San)		
St.No.		11	12	13	14	15	16
Date		23	23	24	24	24	24
Item	Time / Z(m)	23:00	21:00	01:10	02:20	03:30	05:30
T	0	19.66	19.65	18.41	18.00	18.25	18.11
	10	19.70	20.06	18.26	17.87	17.93	18.00
	20	19.66	19.98	17.75	17.79	17.95	17.95
	30	19.05	18.78	17.05	17.50	17.90	17.81
	50	15.85	15.03	16.44	17.14	17.73	
	75	15.16	13.80	16.15	17.08		
	100	13.95					
℃							
			(95 m)	(92 m)			(42 m)
	Bottom		13.00	15.11			17.61
S	0	33.41	33.21	33.36	33.39	33.32	33.36
	10	33.40	33.25	33.33	33.41	33.41	33.39
	20	33.48	33.27	33.51	33.41	33.44	33.40
	30	33.56	33.46	33.65	33.53	33.46	33.44
	50	33.55	33.59	33.76	33.57	33.46	
	75	33.63	33.96	33.80	33.60		
	100	33.89					
‰							
			(95m)	(92 m)			(42 m)
	Bottom		34.17	33.85			33.45
Depth(m)		107	100	95	80	60	45
Water Trans.							
Water Color							
Wave		5	5				
Swell		2	2				
Air Temp.(℃)		18.7	19.3	18.5	18.0	17.8	17.5
Baro.(mb)		1002.5	1003.1	1002.5	1002.5	1002.2	1002.2
Wind		SE6	SE6				
Cloud							
Weather		R	R	R	R	R	R

Month		6 월 (June)					
St.No.		17	22	24	25	26	27
Date		24	23	22	22	22	23
Item	Time / Z(m)	04:40	19:20	20:00	21:40	23:30	01:10
T (℃)	0	18.26	20.09	20.16	19.47	17.54	18.04
	10	18.00	20.12	20.08	19.21	17.55	17.99
	20	18.00	20.12	17.51	16.97	17.04	17.98
	30	17.93	19.43	15.51	15.79	16.13	16.65
	50		13.99	14.38	14.57	14.86	14.86
	75		13.75	13.13	14.30	14.12	14.02
	100					14.30	14.10
		(45m)	(95m)	(87m)	(95m)		(117m)
	Bottom	17.80	14.12	13.09	13.00		14.15
S (‰)	0	33.38	33.34	32.90	32.84	32.87	32.83
	10	33.38	33.32	32.85	32.81	32.91	32.81
	20	33.41	33.33	33.41	32.89	33.08	32.84
	30	33.44	33.34	33.86	33.14	33.17	32.93
	50		33.66	34.20	34.38	33.87	33.45
	75		33.48	34.25	34.36	33.99	34.11
	100					34.16	34.24
		(45m)	(95m)	(87m)	(95m)		(117m)
	Bottom	33.45	34.08	34.31	34.26		34.31
Depth(m)		50	100	90	100	110	120
Water Trans.							
Water Color							
Wave			4	4			
Swell			2	2			
Air Temp.(℃)		17.5	19.3	19.3	20.5	19.8	19.0
Baro.(mb)		1002.2	1003	1004.8	1006	1005	1005
Wind			SE5	NE5			
Cloud			Ns10	Ns10			
Weather		R	R	C			

Month		8 월 (August)				조사선 한라산 (Han Ra San)	
St.No.		11	12	13	14	15	16
Date		13	13	13	13	13	13
Item	Time / Z(m)	14:10	16:20	11:35	08:55	07:10	06:15
T ℃	0	26.80	26.60	25.20	25.11	24.77	24.00
	10	25.09	23.37	21.44	20.73	22.00	21.86
	20	21.56	17.23	18.47	16.81	17.21	18.26
	30	17.01	14.75	15.19	14.64	15.33	16.00
	50	14.71	13.18	13.46	13.65	13.85	
	75	13.82	13.50	13.66	13.80		
	100						
		(95m)	(87 m)	(87 m)			(45m)
	Bottom	13.83	13.62	13.87			14.26
S ‰	0	31.80	30.93	32.00	31.64	31.57	32.62
	10	32.59	32.12	32.30	32.33	33.07	33.08
	20	33.25	32.81	33.14	33.51	33.62	33.53
	30	33.63	33.31	33.82	33.82	33.68	33.80
	50	34.28	33.95	34.11	34.07	34.21	
	75	34.38	34.29	34.35	34.30		
	100						
		(95m)	(87 m)	(87 m)			(45m)
	Bottom	34.39	34.32	34.47			34.10
Depth(m)		100	90	90	80	60	50
Water Trans.							
Water Color		4		3	3	4	
Wave		4	4	4	4	4	4
Swell		1	1	1	1	1	1
Air Temp.(℃)		26.8	25.4	26.2	26.0	25.2	24.2
Baro.(mb)		1007	1007	1008	1009	1008	1008.5
Wind		NE4	NE4	NE4	NE4	NE4	NE4
Cloud		As9	As10	As9	Cs9	Cs10	As10
Weather		C	C	C	C	C	C

Month		8 월 (August)					
St.No.		17	22	24	25	26	27
Date		14	13	26	26	26	26
Item	Time / Z(m)	05:40	18:40	16:30	14:10	11:50	10:05
T	0	22.85	26.80	25.00	23.62	24.50	23.04
	10	20.42	22.37	25.22	24.76	23.94	22.50
	20	16.75	16.87	25.24	24.90	24.00	21.81
	30	13.62	15.48	25.30	25.00	24.21	21.04
	50		14.40	20.00	25.34	17.90	18.86
	75		13.62	16.37	25.08	16.97	15.75
	100			14.81	17.82	15.20	14.68
℃							
		(45m)	(92 m)	(112 m)	(125 m)		(120 m)
	Bottom	12.45	13.62	13.47	14.56		13.54
S	0	31.90	30.87	33.19	32.45	31.71	30.26
	10	32.33	32.71	33.20	32.53	32.02	30.77
	20	33.04	33.21	33.21	32.71	32.14	31.52
	30	33.65	33.80	33.23	32.93	32.66	31.65
	50		34.16	33.40	33.30	33.09	32.04
	75		34.32	33.94	33.37	34.22	33.64
	100			34.00	33.80	33.99	33.90
‰							
		(45m)	(92 m)	(112 m)	(125 m)		(120 m)
	Bottom	33.96	34.31	34.13	34.69		34.06
Depth(m)		50	95	115	130	109	124
Water Trans.							
Water Color							
Wave			4	5	4	4	3
Swell			1	2	1	1	1
Air Temp.(℃)		24.6	25.0	25.2	25.0	25.0	25.2
Baro.(mb)		1008.5	1008.4	1012	1011.3	1011.3	1020
Wind			NE4	E 4	SE3	SE3	SE2
Cloud			As10	Cs6	As10	As10	As10
Weather			C	BC	C	C	C

Month		10월 (October)				조사선 태백산(Tae Back San)	
St.No.		11	12	13	14	15	16
Date		23	23	24	24	24	24
Item	Time / Z(m)	23:30	22:10	01:30	02:30	03:30	06:00
T ℃	0	22.90	23.74	21.50	20.05	20.20	19.75
	10	22.81	23.95	21.60	20.30	19.91	19.61
	20	23.10	23.95	21.78	20.11	19.67	19.63
	30	23.03	23.99	21.50	19.80	17.71	19.91
	50	22.85	23.04	16.18	18.71	17.25	
	75	19.14	20.50	14.21	14.85		
	100						
		(87 m)		(87 m)			(42 m)
	Bottom	16.99		14.20			18.35
S ‰	0	33.78	33.98	33.21	32.62	32.81	32.51
	10	33.78	34.03	33.25	32.64	32.81	32.51
	20	33.78	34.08	33.34	32.74	32.84	32.61
	30	33.77	33.98	33.34	32.81	33.01	32.80
	50	33.79	33.76	33.74	32.85	33.06	
	75	33.74	33.57	33.74	33.32		
	100						
		(87 m)		(87 m)			(42 m)
	Bottom	33.67		33.75			32.81
Depth(m)		90	80	90	80	55	45
Water Trans.							
Water Color							
Wave							
Swell							
Air Temp.(℃)		20.7	22.4	20.0	19.8	20.3	20.2
Baro.(mb)		1017	1017	1017	1017	1017	1016
Wind							
Cloud							
Weather							

Month		10 월 (October)					
St.No.		17	22	24	25	26	27
Date		24	23	22	22	22	22
Item	Time / Z(m)	05:00	20:40	03:20	05:00	07:00	08:00
T	0	20.20	23.70	23.80	22.98	22.50	22.30
	10	20.41	23.45	24.00	23.39	21.53	20.20
	20	20.20	23.95	24.00	23.45	21.60	19.40
	30	20.90	24.08	24.14	23.30	21.70	18.17
	50		24.00	24.11	17.66	17.78	15.03
	75		24.00	22.90	16.50	16.98	15.97
	100						
℃							
		(39m)	(95m)	(92 m)			(82m)
	Bottom	18.80	24.01	17.90			16.00
S	0	32.73	34.02	33.87	33.78	33.62	32.34
	10	32.75	34.02	33.88	33.77	33.57	32.47
	20	33.24	34.01	33.87	33.78	33.54	33.07
	30	33.19	34.03	33.86	33.70	33.53	33.19
	50		34.02	33.88	33.97	33.54	33.17
	75		34.01	33.91	33.98	33.47	34.19
	100						
‰							
		(39 m)	(95m)	(92 m)			(82m)
	Bottom	33.19	34.03	33.83			34.22
Depth(m)		42	100	95	79	80	85
Water Trans.							
Water Color							
Wave							
Swell							
Air Temp.(℃)		20.3	22.3	19.8	19.9	19.7	19.9
Baro.(mb)		1017	1017	1020	1020	1020	1020
Wind							NE3
Cloud							0
Weather							B

Month		12 월 (December)			조사선 태백산 (The Back San)		
St.No.		11	12	13	14	15	16
Date		14	14	13	13	13	13
Item	Time / Z(m)	02:40	01:00	23:30	22:20	21:10	20:10
T	0	17.30	19.59	17.77	16.52	14.75	13.48
	10	17.44	19.65	18.58	16.88	14.99	13.51
	20	16.49	19.67	18.64	16.11	14.44	13.48
	30	15.43	18.74	17.38	15.68	14.47	13.46
	50	15.88	17.53	16.08	15.80	14.83	
	75	16.51	16.94	15.68			
	100	16.60	15.40				
℃							
		(112 m)			(70 m)	(57 m)	(42 m)
	Bottom	16.69			16.12	15.15	13.44
S	0	—	34.02	33.86	33.51	33.27	32.92
	10	33.71	34.03	33.87	33.50	33.29	32.86
	20	33.47	34.03	33.87	33.36	33.19	32.90
	30	33.26	33.86	33.61	33.30	33.19	32.93
	50	33.18	33.47	33.33	33.48	33.44	
	75	33.74	33.33	33.43			
	100	33.82	33.20				
‰							
		(112 m)			(70 m)	(57 m)	(42 m)
	Bottom	33.78			33.93	33.53	32.90
Depth(m)		115	103	80	75	60	45
Water Trans.							
Water Color							
Wave							
Swell							
Air Temp.(℃)		15.2	15.6	15.4	14.3	13.9	14.0
Baro.(mb)		1023.5	1023	1023.5	1023.5	1023.5	1023.5
Wind							
Cloud							
Weather							

Month		12월 (December)					
St.No.		17	22	24	25	26	27
Date		13	13	8	8	8	8
Item	Time / Z(m)	19:10	13:20	16:40	15:10	13:20	12:30
T ℃	0	13.54	19.86	20.00	19.44	19.74	19.52
	10	13.82	19.99	20.30	19.66	20.01	19.60
	20	13.83	19.91	19.75	19.67	19.53	19.62
	30	13.87	19.76	19.69	19.71	19.56	19.36
	50		19.61	19.34	19.70	19.34	18.59
	75		19.61	19.17	19.76	19.27	18.10
	100						
		(38 m)	(91 m)	(87 m)	(87 m)	(95m)	(95m)
	Bottom	13.80	19.52	18.94	19.70	18.88	18.05
S ‰	0	32.58	34.02	34.07	33.98	34.02	33.98
	10	33.01	34.04	34.09	33.98	34.06	33.97
	20	33.18	34.01	34.06	33.98	34.02	33.93
	30	33.13	34.00	33.94	33.98	34.00	33.93
	50		33.98	34.00	33.99	33.94	33.76
	75		34.02	33.88	33.99	33.94	33.60
	100						
		(38 m)	(91 m)	(87 m)	(87 m)	(95m)	(95m)
	Bottom	33.13	34.98	33.86	33.97	33.85	33.69
Depth(m)		40	94	90	90	100	100
Water Trans.			15				
Water Color			3				
Wave			3	3	3	3	3
Swell			1	1	1	1	1
Air Temp.(℃)		14.0	18.6	14.8	14.0	14.0	13.2
Baro.(mb)		1023.5	1022.5	1014	1014	1015	1015
Wind			NE3	NW4	NW4	NW4	NW4
Cloud			Ac2	As10	As10	As10	As10
Weather			B	C	C	C	C

제 4 편

부 유 생 물 조 사 성 적

PART 4

PLANKTON DATA

1 9 7 7

부유생물의 채집 및 조사방법

부유생물의 채집은 본원 및 각 지원에서 한국 근해의 정선 해양 관측점과 기타 해양조사시 일반 해양관측과 동시에 채집하였으며 그 결과는 다음과 같다.

1. 채집 및 방법

채집망은 Norpac Net를 사용하여 정량 조사하였으며 채집 수층은 수심이 깊은 동해측은 100 m, 수심이 얕은 서해측은 50 m, 남해측은 저층에서 표면까지 약 1 m/sec의 속도로써 수직 채집하여 약 5%의 중성 Formalin으로 고정하였다.

2. 채집된 시료의 처리 방법

상기와 같이 채집된 시료에 대하여 대형인 강장류 갑각류 및 피낭류 등을 제거하고 용적 측정법에 의한 침전량과 중량측정법에 따른 습중량을 측정하여 그 양을 표시하였다.

정량측정후 대 Plankton 즉 Amphipoda, Euphaus, Chaetognatha 및 Thaliacea등을 Sorting 하였다.

Plankton collection and procedures

Plankton samples were collected at the oceanographic stations of the sectional lines made in the adjacent water of Korea, the important fishing ground observation and special oceanographic observation. The methods applied for colleting and treating the samples and gears are as follows ;

. Method of plankton collection

Plankton samples were collected by the vertical haul with the NORPAC Net. General depth of haul is from 100m in the Eastern ea, 50m in the Western Sea, and bottom in the Southern Sea to he Surface, and the speed of hauling is approximately one meter er second. The samples obtained from the net were immediately erserved in about five percent neutral formalin in the preser- ing bottles of plankton and taken to the laboratory for examin- tions.

. Laboratory precedures

For quantitative examination of plankton, the settling volume nd the wet weight measurements were in removing macreplanktons, uch as Hydromedusae, Soyphomedusae and Doliolum. Then the mac- eplankton in samples were sorted into the groups, such as Amph- poda, Euphausiacea, Chaetognatha and Thaliacea.

동해 부유생물 조사성적

PLANKTON DATA EASTERN WATERS

1 9 7 7

107 선 부유생물 조사표

Plankton Data, Line 107

Month	Feb.				Apr.				Jun.		
Station	01	03	05	07	01	03	05	07	01	03	05
Date	4	6	6	6	13	13	13	13	22	22	22
Time	09:35	10:00	13:50	17:50	08:10	10:25	13:50	18:00	10:40	12:50	16:30
Col. depth (m)	90	100	100	100	90	100	100	100	90	100	100
Volume (CC)	1.7	5.0	1.2	0.6	4.1	2.1	2.4	3.1	12.5	1.8	0.5
Biomass (mg/m^3)	-	-	-	-	46.82	35.22	31.44	42.76	223.27	5.03	2.51

Month	Jun.				Aug.						
Station	07	09	11	13	01	03	05	07	09	11	13
Date	22	23	23	23	9	9	9	9	9	10	10
Time	20:30	01:40	05:50	10:00	07:30	09:20	13:00	17:05	21:50	01:55	06:00
Col. depth (m)	100	100	100	100	90	100	100	100	100	100	100
Volume (CC)	3.1	6.7	4.0	1.2	2.0	1.5	1.5	1.0	1.5	1.0	9.6
Biomass (mg/m^3)	53.45	4.40	229.55	28.30	20.96	18.86	18.86	9.34	18.86	9.34	62.89

Month	Oct.							Dec.			
Station	01	03	05	07	09	11	13	01	03	05	07
Date	18	19	19	19	19	19	19	15	15	15	16
Time	20:30	04:20	07:30	11:20	14:50	18:30	22:20	16:15	17:55	21:35	01:30
Col. depth (m)	90	100	100	100	100	100	100	90	100	100	-
Volume (CC)	5.0	9.0	5.5	4.5	5.8	7.0	0.5	1.5	2.0	3.0	-
Biomass (mg/m^3)	48.22	76.10	66.04	57.86	68.55	67.92	2.52	32.84	18.87	28.30	-

106 선 부유생물 조사표

Plankton Data, Line 106

Month	Feb.					Apr.					Jun.	
Station	03	05	07	09	11	03	05	07	09	11	03	05
Date	7	7	7	7	7	14	14	14	14	14	21	21
Time	16:00	13:20	09:10	05:10	01:10	16:50	13:50	09:35	05:25	01:30	03:40	00:10
Col. Depth (m)	100	100	100	100	100	100	100	100	100	100	100	100
Volume (CC)	1.7	3.0	2.0	0.7	1.1	10.0	6.0	7.0	7.5	5.5	2.2	2.5
Biomass(mg/m³)	-	-	-	-	-	137.10	47.16	81.76	79.87	100.0	6.28	10

Month	Jun.				Aug.						Oct.	
Station	07	09	11	13	03	05	07	09	11	13	03	05
Date	20	20	20	20	11	11	10	10	10	10	20	20
Time	19:40	15:30	11:10	06:30	07:10	04:20	20:20	16:45	12:40	08:30	20:10	17:20
Col. Depth (m)	100	100	100	100	100	100	100	100	100	100	100	100
Volume (CC)	5.0	2.4	12.5	1.4	2.5	15.0	35.0	6.5	21.0	0.8	15.0	5.0
Biomass(mg/m³)	36.47	13.83	118.86	27.04	34.59	261.00	610.06	62.89	166.68	9.34	235.85	84.91

Month	Oct.				Dec.						
Station	07	09	11	13	03	05	07	09	11	13	15
Date	20	20	20	20	16	16	16	20	20	21	21
Time	13:20	09:20	04:25	00:20	14:20	11:30	07:40	17:40	21:35	01:30	05:25
Col. depth (m)	100	100	100	100	100	100	100	100	100	100	100
Volume (CC)	4.0	3.8	3.5	6.0	4.0	4.5	3.5	4.0	8.0	6.0	2.0
Biomass(mg/m³)	58.49	35.85	44.03	84.28	52.83	37.74	27.04	37.74	177.99	193.08	36.48

105선 부유생물 조사표

Plankton Data, Line 105

Month	Feb.					Apr.					Jun.	
Station	03	05	07	09	11	03	05	07	09	11	03	05
Date	8	8	8	8	8	17	17	20	20	20	19	19
Time	08:15	10:00	14:10	18:10	22:20	06:45	08:40	10:30	14.40	19:00	08:50	10:55
Col. depth (m)	40	100	100	100	100	48	100	100	100	100	48	100
Volume (CC)	0.8	2.0	1.5	-	12.0	2.0	3,4	1.7	15.0	14.0	3.7	2.6
Biomass(mg/m³)	-	-	-	-	-	25.15	18.86	16.35	89.30	125.78	83.87	45.28

Month	Jun.				Aug.						Oct.	
Station	07	09	11	13	03	05	07	09	11	13	03	05
Date	19	19	19	20	11	11	11	11	12	12	18	18
Time	15:10	19:30	23:50	04:10	13:50	15:45	19:55	23:45	03:35	07:30	21:30	19:40
Col. depth (m)	100	100	100	100	48	100	100	100	100	100	48	100
Volume (CC)	0.8	15.1	5.4	3.5	1.0	1.2	3.5	5.5	0.3	0.2	9.5	13.0
Biomass(mg/m³)	9.43	379.24	121.38	20.12	19.65	18.86	31.44	84.90	3.14	5.03	256.88	218.24

Month	Oct.				Dec.						
Station	07	09	11	13	03	05	07	09	11	13	15
Date	18	18	18	18	13	12	12	12	10	10	10
Time	15:45	12:20	08:00	04:45	01:50	23:50	19:40	15:40	20:15	16:05	12:15
Col. depth (m)	100	100	100	100	100	100	100	100	100	100	100
Volume (CC)	3.9	1.2	2.7	4.2	1.5	7.8	4.2	2.0	3.0	1.2	3.5
Biomass(mg/m³)	38.36	14.47	36.48	55.97	40.63	66.04	51.57	12.58	32.70	18.87	48.43

104 선 부유생물 조사표

Plankton Data, Line 104

Month	Feb.				Apr.			Jun.	
Station	05	07	09	11	05	07	09	05	07
Date	9	9	9	9	21	21	21	16	16
Time	13:10	10:10	06:00	02:00	10:45	07:30	03:20	16:55	13:50
Col. depth (m)	100	100	100	100	100	100	100	100	100
Volume (CC)	3.1	1.0	1.0	2.3	4.5	7.0	50.0	1.6	2.3
Biomass (mg/m³)	-	-	-	-	44.65	82.38	508.17	11.94	33.99

Month	Jun.			Aug.					Oct.
Station	09	11	13	05	07	09	11	13	05
Date	16	16	16	13	13	12	12	12	17
Time	09:50	05:40	01:30	03:45	00:00	20:00	16:00	11:50	09:00
Col. depth (m)	100	100	100	100	100	100	100	100	100
Volume (CC)	0.3	2.6	9.0	2.5	4.5	3.0	3.5	0.5	7.7
Biomass (mg/m³)	9.43	27.67	138.35	25.15	50.31	44.02	62.89	3.14	111.95

Month	Oct.				Dec.					
Station	07	09	11	13	05	07	09	11	13	15
Date	17	17	17	18	6	7	9	9	10	10
Time	12:00	16:00	20:30	00:10	23:55	02:45	16:00	20:20	00:10	04:00
Col. depth (m)	100	100	100	100	-	100	100	100	100	100
Volume (CC)	3.7	6.5	6.9	2.3	-	1.5	2.0	2.5	1.7	1.5
Biomass (mg/m³)	23.27	54.09	76.23	25.79	-	34.59	24.53	42.14	12.58	22.01

03 선 부유생물 조사표

Plankton Data, Line 103

Month	Feb.				Apr.			
Station	05	07	09	11	05	07	09	11
Date	9	9	10	10	22	22	22	23
Time	19:10	22:30	03:00	07:10	14:45	17:55	22:05	02:20
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (CC)	2.4	13.0	11.0	2.0	4.0	41.0	26.0	16.5
Biomass(mg/m³)	-	-	-	-	16.35	359.74	131.44	113.83

Month	Jun.				Aug.	
Station	05	07	09	11	07	09
Date	15	15	15	15	13	14
Time	08:50	12:00	16:20	20:30	21:15	02:00
Col. depth (m)	100	100	100	100	100	100
Volume (CC)	3.2	3.2	0.4	11.5	11.5	25.0
Biomass(mg/m³)	37.10	25.78	3.14	239.62	143.39	154.08

Month	Oct.				Dec.			
Station	05	07	09	11	05	07	09	11
Date	14	14	14	14	6	6	6	6
Time	16:30	13:35	10:00	06:00	18:30	15:30	11:30	07:30
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (CC)	5.0	6.0	3.5	1.5	0.6	1.5	4.0	7.0
Biomass(mg/m³)	49.06	76.73	43.40	10.69	12.58	12.58	45.91	66.04

102 선 부유생물 조사표

Plankton Data, Line 102

Month	Feb.				Apr.		
Station	05	07	09	11	05	07	09
Date	10	10	10	10	23	23	23
Time	23:30	20:20	15:30	11:00	17:15	14:35	10:20
Col. depth (m)	100	100	100	100	100	100	100
Volume (CC)	1.5	1.2	27.0	1.0	3.5	4.0	7.1
Biomass (mg/m^3)	-	-	-	-	23.89	12.57	86.16

Month	Apr.	Jun.			Aug.		Oct.
Station	11	05	07	09	07	11	05
Date	23	12	12	12	14	14	13
Time	06:05	06:45	09:10	13:35	17:10	09:14	17:15
Col. depth (m)	100	100	100	100	100	100	100
Volume (CC)	4.0	1.3	1.0	5.0	8.0	10.1	3.2
Biomass (mg/m^3)	35.22	6.28	8.80	48.05	59.75	100.62	18.87

Month	Oct.			Dec.			
Station	07	09	11	05	07	09	11
Date	13	13	14	5	5	6	6
Time	19:50	23:30	03:00	18:30	20:45	00:00	04:30
Col. depth (m)	100	100	100	100	100	100	100
Volume (CC)	6.0	9.0	4.6	3.0	3.0	4.5	1.5
Biomass (mg/m^3)	67.30	105.66	50.94	32.70	31.45	44.65	18.87

남해 부유생물 조사성적

PLANKTON DATA SOUTHERN WATERS

1 9 7 7

209 선 부유생물 조사표

Plankton Data, Line 209

Month	Feb.				Apr.			
Station	05	07	09	11	05	07	09	11
Date	12	12	12	12	24	24	24	24
Time	08:30	12:00	16:00	20:05	01:25	04:15	08:00	11:50
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (CC)	0.9	35.0	1.5	0.5	3.0	5.0	11.0	7.0
Biomass(mg/m^3)	-	-	-	-	19.49	199.37	108.17	91.19

Month	Jun.				Aug.			
Station	05	07	09	11	05	07	09	11
Date	10	10	10	10	14	15	15	15
Time	10:30	07:50	04:00	00:05	23:10	01:50	05:20	08:50
Col. depth (m)	100	100	100	100	100	-	100	100
Volume (CC)	6.3	9.2	9.0	8.0	4.0	-	10.0	22.0
Biomass(mg/m^3)	48.42	42.13	94.33	128.93	40.88	-	116.35	179.24

Month	Oct.				Dec.			
Station	05	07	09	11	05	07	09	11
Date	13	13	13	13	5	5	5	5
Time	14:10	11:50	08:20	04:30	14:50	11:50	08:10	04:25
Col. depth (m)	100	100	100	100	100	100	100	100
Volume (CC)	8.0	3.8	8.3	3.3	2.5	1.0	3.8	2.5
Biomass(mg/m^3)	88.05	36.48	81.76	28.93	18.24	18.87	38.36	36.48

208 선 부유생물 조사표

Plankton Data, Line 208

Month	Feb.				Apr.				
Station	01	03	05	07	01	03	05	07	09
Date	13	13	13	13	25	25	24	24	24
Time	13:50	11:00	07:50	04.25	03:30	00:50	21:50	19.05	16:15
Col. depth (m)	60	100	100	100	100	100	100	100	100
Volume (CC)	1.5	1.5	3.0	50.0	1.5	5.0	3.0	4.0	9.0
Biomass(mg/m³)	-	-	-	-	6.28	21.38	14.46	18.86	20.12

Month	Jun.					Aug.				
Station	01	03	05	07	09	01	03	05	07	09
Date	9	9	9	9	9	15	15	15	15	15
Time	68:30	11:10	13:45	16:40	19:30	23:25	21:10	18:25	15:40	13:10
Col. depth (m)	70	100	100	100	100	100	100	100	100	100
Volume (CC)	0.8	7.2	4.0	0.7	4.0	0.5	2.0	3.0	10.0	15.0
Biomass(mg/m³)	32.45	716.35	746.54	15.72	54.71	8.80	18.86	15.72	62.89	89.18

Month	Oct.					Dec.				
Station	01	03	05	07	09	01	03	05	07	09
Date	12	12	12	12	13	4	4	4	4	5
Time	14:30	16:35	19:10	21:55	00:20	13:50	16:10	18:50	21:30	00:10
Col. depth (m)	70	100	100	100	100	70	100	100	100	100
Volume (CC)	10.0	4.0	5.0	5.0	2.5	1.8	2.0	3.6	2.6	3.0
Biomass(mg/m³)	185.09	44.65	43.40	35.85	9.43	26.75	20.13	35.22	22.01	40.25

207 선 부유생물 조사표

Plankton Data, Line 207

Month	Feb.			Apr.		
Station	01	03	05	01	03	05
Date	14	14	14	11	11	11
Time	02:40	01:20	00:00	18:55	20:40	22:33
Col. depth (m)	84	110	160	75	110	160
Volume (CC)	3.0	0.5	2.0	0.1	4.0	8.0
Biomass (mg/m³)	24.72	3.43	11.01	0.84	20.01	35.39

Month	Jun.			Aug.		
Station	01	03	05	01	03	05
Date	25	25	25	12	12	12
Time	18:50	17:30	16:00	09:30	11:50	14:20
Col. depth (m)	84	115	160	75	100	160
Volume (CC)	2.0	8.0	12.0	3.5	8.0	5.0
Biomass (mg/m³)	25.47	68.38	55.05	33.56	69.18	25.56

Month	Oct.			Dec.		
Station	01	03	05	01	03	05
Date	24	24	24	15	15	15
Time	18:30	16:35	15:00	16:50	15:20	13:40
Col. depth (m)	84	115	160	84	113	160
Volume (CC)	3.0	9.0	4.0	0.5	2.0	0.5
Biomass (mg/m³)	22.47	84.78	24.77	8.99	21.71	13.76

206 선 부유생물 조사표

Plankton Data, Line 206

Month	Feb.			Apr.		
Station	01	03	05	01	03	05
Date	13	13	13	12	12	12
Time	14:50	17:10	19:30	08:20	06:10	03:30
Col. depth (m)	62	94	130	62	94	125
Volume (CC)	2.5	1.5	6.0	2.0	8.0	0.3
Biomass (mg/m³)	35.50	13.39	32.90	40.57	63.69	0.5

Month	Jun.			Aug.		
Station	01	03	05	01	03	05
Date	24	25	25	13	12	12
Time	07:50	09:30	11:50	03:20	24:00	20:10
Col. depth (m)	60	90	130	60	90	130
Volume (CC)	1.0	0.2	7.0	5.5	15.0	3.0
Biomass (mg/m³)	10.48	4.89	46.93	104.82	122.29	31.45

Month	Oct.			Dec.		
Station	01	03	05	01	03	05
Date	24	24	24	14	14	14
Time	07:50	10:00	12:30	09:00	06:30	04:20
Col. depth (m)	58	90	120	62	90	170
Volume (CC)	3.0	2.5	6.0	2.0	6.0	0.4
Biomass (mg/m³)	48.81	27.95	56.08	35.50	71.28	3.70

205 선 부유생물 조사표

Plankton Data, Line 205

Month	Feb.			Apr.		
Station	01	03	05	01	03	05
Date	4	11	11	14	13	13
Time	14:30	19:20	02:40	00:00	22:20	19:00
Col. depth (m)	50	86	115	54	86	115
Volume (CC)	7.5	2.2	1.5	6.0	4.5	9.5
Biomass (mg/m³)	279.25	25.60	8.21	174.83	58.52	158.64

Month	Jun.			Aug.		Oct.
Station	01	03	05	01	03	01
Date	23	23	23	14	14	16
Time	12:00	14:30	17:30	07:20	01:40	08:20
Col. depth (m)	50	80	115	50	85	54
Volume (CC)	2.0	5.0	4.0	18.0	12.0	2.2
Biomass (mg/m³)	25.16	47.12	24.62	515.72	196.15	52.45

Month	Oct.			Dec.		
Station	02	03	05	01	03	05
Date	23	23	23	7	13	13
Time	15:00	16:00	19:10	12:05	16:40	11:40
Col. depth (m)	60	83	116	54	80	115
Volume (CC)	-	6.0	3.0	2.0	2.0	0.5
Biomass (mg/m³)	-	93.25	37.96	40.79	30.66	5.47

204 선 부유생물 조사표

Plankton Data, Line 204

Month	Apr.		Jun.		Aug.		Oct.		Dec.	
Station	04	06	04	06	04	06	04	06	04	06
Date	16	16	17	17	26	26	16	16	8	8
Time	14:00	15:40	17:00	20:10	04:00	08:10	13:35	16:55	09:25	11:50
Col. depth (m)	75	125	75	128	75	125	75	125	75	125
Volume (CC)	3.0	12.0	1.0	10.0	5.0	3.5	3.0	5.0	2.0	0.2
Biomass(mg/m^3)	20.97	52.84	25.17	99.75	67.11	25.16	62.92	55.36	26.85	4.53

203 선 부유생물 조사표

Plankton Data, Line 203

Month	Feb.	Apr.		Jun.	Aug.	Oct.
Station	01	01	03	01	01	01
Date	10	20	20	19	29	17
Time	08:50	11:20	14:05	09:00	10:50	14:10
Col. depth (m)	57	57	135	57	55	57
Volume (CC)	0.2	5.0	8.5	1.5	8.0	1.0
Biomass(mg/m^3)	—	88.30	53.59	22.08	234.55	49.67

313 선 부유생물 조사표

Plankton Data, Line 313

Month	Feb.	Apr.		Jun.		Aug.	Oct.		Dec.	
Station	02	02	04	02	04	02	02	04	02	04
Date	10	21	21	20	21	28	17	17	11	11
Time	03:50	08:40	11:10	09:10	02:10	17:50	18:30	21:20	03:20	01:20
Col. depth (m)	90	90	85	90	85	90	90	88	90	78
Volume (CC)	2.0	4.5	3.0	1.5	9.0	5.5	3.0	0.3	10.0	3.0
Biomass(mg/m^3)	17.47	62.19	46.63	20.96	125.83	52.41	45.42	7.15	94.34	33.87

314 선 부유생물 조사표

Plankton Data, Line 314

Month	Feb.		Apr.				Jun.
Station	01	07	02	05	06	08	01
Date	7	9	17	22	22	22	22
Time	18:40	10:20	05:10	06:00	04:20	01:55	14:50
Col. depth (m)	140	90	125	106	110	90	140
Volume (CC)	—	2.0	20.2	7.5	7.5	15.0	0.3
Biomass (mg/m³)	—	15.37	75.49	44.61	53.17	120.20	0.90

Month	Jun.			Aug.				
Station	03	05	07	01	03	04	05	07
Date	22	22	21	27	27	28	27	27
Time	11:30	08:15	17:30	00:00	04:50	07:10	09:40	14:35
Col. depth (m)	110	100	90	100	100	85	100	90
Volume (CC)	0.1	3.0	0.5	3.0	6.0	3.0	2.0	2.0
Biomass (mg/m³)	5.15	37.74	10.29	22.01	66.04	44.41	12.58	13.98

Month	Oct.				Dec.			
Station	01	03	05	07	01	03	05	07
Date	21	21	21	18	8	9	9	10
Time	22:20	19:00	15:50	13:40	21:40	01:20	05:10	10:40
Col. depth (m)	135	110	100	90	100	110	100	90
Volume (CC)	3.0	4.5	0.8	0.5	0.2	7.5	3.0	2.5
Biomass (mg/m³)	30.29	65.18	9.43	13.28	4.40	71.47	26.42	45.42

서 해 부 유 생 물 조 사 성 적

PLANKTON DATA WESTERN WATERS

1 9 7 7

ESTAMPADO EN TEXAS

306 선 부유생물 조사표

Plankton Data, Line 306

Month	Feb.			
Station	03	05	07	09
Date	7.	7	7	7
Time	13:20	16:15	19:25	22:40
Col. depth (m)	12	42	50	50
Volume (CC)	0.6	0.5	1.1	0.9
Biomass (mg/m³)	140.00	45.45	52.22	47.62

Month	Apr.			
Station	03	05	07	09
Date	8	8	8	8
Time	10:30	13:50	17:10	20:30
Col. depth (m)	12	40	50	50
Volume (CC)	0.5	0.7	0.2	0.4
Biomass (mg/m³)	120.0	46.67	4.76	19.05

Month	Jun.			
Station	03	05	07	09
Date	8	9	9	9
Time	12:50	10:10	13:30	16:50
Col. depth (m)	10	40	50	50
Volume (CC)	0.9	1.5	6.1	2.2
Biomass (mg/m³)	121.19	82.14	400.0	88.57

307 선 부유생물 조사표

Plankton Data, Line 307

Month	Eeb.				Apr.			
Station	03	05	07	09	03	05	07	09
Date	8	8	8	8	9	9	9	9
Time	16:00	11:55	08:35	05:05	14:00	09:40	06:20	03:00
Col. depth (m)	38	50	50	50	38	50	50	50
Volume (CC)	0.8	0.3	0.9	0.2	0.4	1.0	0.8	0.8
Biomass (mg/m^3)	37.50	23.79	57.05	4.77	31.25	33.33	23.81	28.57

Month	Jun.				Aug.			
Station	03	05	07	09	03	05	07	09
Date	10	10	10	9	10	10	10	10
Time	10:20	06:00	02:40	23:20	09:00	13:20	16:40	20:00
Col. depth (m)	30	45	50	50	35	50	50	50
Volume (CC)	8.9	2.1	4.2	1.9	0.7	1.6	2.3	2.0
Biomass (mg/m^3)	986.51	66.77	274.29	79.05	4.9	11.7	20.8	18.3

Month	Oct.				Dec.			
Station	04	06	08	10	03	05	07	09
Date	7	7	7	7	8	7	7	7
Time	12:20	15:40	19:00	22:20	00:00	19.40	16:20	13:00
Col. depth (m)	15	20	20	20	35	48	50	50
Volume (CC)	3.8	1.8	1.2	1.5	0.3	0.6	1.5	1.2
Biomass (mg/m^3)	187.9	46.2	54.3	54.4	12.86	15.13	18:00	56.88

308 선 부유생물 조사표

Plankton Data, Line 308

Month	Feb.				Apr.				
Station	03	05	07	09	01	03	05	07	09
Date	9	9	9	9	9	9	10	10	10
Time	00:05	03:15	06:45	10.15	19:40	23:00	02:20	05:40	09:00
Col. depth (m)	50	50	50	50	20	45	48	50	50
Volume (CC)	0.3	1.2	0.6	1.9	1.7	2.7	2.2	1.4	0.7
Biomass(mg/m³)	9.52	178.90	42.92	85.66	202.38	79.37	64.36	28.57	19.05

Month	Jun.					Aug.				
Station	01	03	05	07	09	01	03	05	07	09
Date	10	10	11	11	11	11	11	11	11	11
Time	16:00	19:20	11.00	14:20	17:40	17:50	14:30	11:10	07:50	04:30
Col. depth (m)	18	45	48	50	50	18	45	50	50	50
Volume (CC)	0.6	2.9	2.5	2.2	2.9	0.5	3.3	2.9	2.7	2.9
Biomass(mg/m³)	18.29	111.11	77.72	77.95	146.95	22.4	22.9	26.5	19.8	18.7

Month	Oct.					Dec.				
Station	02	04	06	08	10	01	03	05	07	09
Date	8	8	8	8	8	6	6	6	7	7
Time	16:50	13:30	10:10	06:50	03:30	15:15	18:30	21:50	01:10	04:30
Col. depth (m)	20	20	20	20	20	20	40	50	50	50
Volume (CC)	3.7	2.0	1.0	1.0	0.4	0.3	0.4	1.5	1.7	1.9
Biomass(mg/m³)	121.8	13.2	68.3	48.4	35.0	5.25	8.00	32.76	72.86	61.36

309 선 부유생물 조사표

Plankton Data, Line 309

Month	Feb.					Apr.				
Station	01	03	05	07	09	01	03	05	07	09
Date	10	10	10	9	9	11	11	10	10	10
Time	07:10	03:55	00:35	21:05	17:45	05:50	02:30	23:10	19:50	16:30
Col. depth (m)	30	50	50	50	50	28	50	50	50	50
Volume (CC)	0.7	0.2	1.0	0.4	0.6	1.5	1.5	1.9	1.3	1.2
Biomass(mg/m^3)	103.17	9.51	380.77	33.36	28.60	50.85	28.57	42.86	42.86	19.05

Month	Jun.					Aug.				
Station	01	03	05	07	09	01	03	05	07	09
Date	13	13	12	12	12	11	13	13	13	13
Time	10:10	13:30	07:50	04:30	01:10	22:20	11:50	15:10	18:30	21:50
Col. depth (m)	25	50	50	50	50	25	50	50	50	50
Volume (CC)	0.9	1.4	1.3	2.1	0.8	0.4	2.0	2.6	1.0	0.8
Biomass(mg/m^3)	49.81	39.05	18.43	25.0	10.24	11.5	29.2	31.5	11.5	5.5

Month	Oct.					Dec.				
Station	01	03	05	07	09	01	03	05	07	09
Date	11	11	11	11	11	11	11	11	11	11
Time	08:10	11:30	14:50	18:10	21:30	08:50	12:10	15:30	18:50	22:10
Col. depth (m)	20	50	50	50	50	20	50	50	50	50
Volume (CC)	1.7	6.1	3.0	6.9	5.3	0.5	1.6	1.0	0.8	0.6
Biomass(mg/m^3)	48.2	135.6	46.6	136.2	39.8	29.40	18.52	7.88	14.72	7.60

310 선 부유생물 조사표

Plankton Data, Line 310

Month	Feb.				Apr.			
Station	03	05	07	09	03	05	07	09
Date	10	10	10	10	11	11	11	11
Time	12:00	15:15	18:45	22:15	11:10	14:30	17:50	21:10
Col. depth (m)	27	50	50	50	25	50	50	50
Volume (CC)	0.7	0.8	1.0	1.1	1.6	2.1	1.0	1.2
Biomass(mg/m³)	79.65	33.33	43.97	47.67	66.67	52.38	19.05	23.81

Month	Jun.				Aug.			
Station	03	05	07	09	03	05	07	09
Date	13	13	14	14	14	14	14	14
Time	18:00	21:20	00:40	04:00	15:40	12:20	09:00	06:40
Col. depth (m)	25	50	50	50	25	50	50	50
Volume (CC)	2.3	1.0	-	8.9	1.9	4.8	3.0	0.9
Biomass(mg/m³)	51.33	23.0	36.81	119.29	54.5	107.5	56.2	11.5

Month	Oct.				Dec.			
Station	03	05	07	09	03	05	07	09
Date	12	12	12	12	12	12	12	12
Time	15:20	12:00	08:40	05:20	16:00	12:40	09:20	06:00
Col. depth (m)	20	50	50	50	25	50	50	50
Volume (CC)	1.5	3.5	2.7	1.6	1.7	2.0	1.5	1.1
Biomass(mg/m³)	85.9	98.5	62.9	25.1	55.24	36.64	42.14	44.48

311 선 부유생물 조사표

Plankton Data, Line 311

Month	Feb.				Apr.			
Station	04	05	07	09	04	05	07	09
Date	12	12	11	11	13	13	12	12
Time	14:35	12:50	10:35	07:05	11:40	10:00	09:30	05:50
Col. depth (m)	35	50	50	50	35	50	50	50
Volume (CC)	2.0	2.0	1.2	0.8	0.2	0.6	1.9	0.7
Biomass (mg/m^3)	156.46	90.41	66.67	28.54	6.80	23.81	61.90	38.10

Month	Jun.				Aug.			
Station	04	05	07	09	04	05	07	09
Date	15	15	14	14	14	14	17	17
Time	10:30	08:50	16:10	12:40	21:00	22:40	12:10	15:40
Col. depth (m)	35	50	50	50	30	50	50	50
Volume (CC)	0.7	1.4	0.9	2.9	1.6	1.5	0.8	1.0
Biomass (mg/m^3)	50.86	82.44	53.14	120.90	25.8	23.0	12.1	7.2

Month	Oct.				Dec.			
Station	04	05	07	09	04	05	07	09
Date	12	12	13	13	12	12	13	13
Time	20:40	22:20	12:40	16:00	21:20	23:00	11:40	15:00
Col. depth (m)	30	50	50	50	30	50	50	50
Volume (CC)	2.5	4.0	2.2	0.1	0.8	2.6	0.7	0.5
Biomass (mg/m^3)	20.7	71.7	36.3	7.7	30.80	75.84	11.20	8.76

312 선 부유생물 조사표

Plankton Data, Line 312

Month	Feb.				Apr.			
Station	03	05	07	09	03	05	07	09
Date	12	13	13	13	14	14	14	14
Time	22:40	02:00	06:15	09:45	10:40	14:20	18:50	22:20
Col. depth (m)	85	50	50	50	50	50	50	50
Volume (CC)	0.3	0.9	0.9	1.1	0.8	0.6	0.3	0.6
Biomass (mg/m³)	14.01	38.10	61.97	38.09	42.86	28.57	19.05	33.33

Month	Jun.				Aug.			
Station	03	05	07	09	03	05	07	09
Date	16	16	16	16	18	18	18	18
Time	09:20	12:40	17:00	20:20	11:20	08:00	03:40	00:20
Col. depth (m)	50	50	50	50	50	50	50	50
Volume (CC)	0.6	0.9	0.8	0.8	2.0	2.2	1.6	2.1
Biomass (mg/m³)	36.43	46.29	20.38	14.38	41.3	28.1	33.2	27.5

Month	Oct.				Dec.			
Station	03	05	07	09	03	05	07	09
Date	14	14	14	64	14	14	14	13
Time	11:40	08:20	04:00	00:40	10:40	07:20	03:00	23:40
Col. depth (m)	50	50	50	50	50	50	50	50
Volume (CC)	2.6	3.0	2.8	2.2	0.7	2.4	0.7	0.7
Biomass (mg/m³)	78.6	79.3	99.8	44.3	14.66	71.48	23.30	8.04

1978년 6월 일 500부 발간	
상 호	예 문 사 (44) 3331, 3192
대 표	최 시 웅
인가근거	충무 126 - 124
참 여 자	국립수산진흥원
	수산연구사 김 복 기

정 오 표 (ERRATA)

해양조사연보 (Volume 26)

페이지 Page	열 Line	횡 Column	오 Error	정 Correct
6	9		Meteorlogical	Meteorological
7	下 2		비 (B)	비 (R)
33	12	좌 3	33.32	34.32
36	13	우 1	33.40	33.90
〃	下 6	좌 3	33.22	34.22
42	10	〃	38.57	33.57
50	14	〃	34.90	33.90
60	下 4	〃	34.60	34.06
66	8	〃	33.29	34.29
68	下 8	우 1	33.21	34.21
117	11	좌 3	33.40	34.40
136	下 5	좌 2	6.46	16.46
140	11	좌 3	33.26	33.66
141	1		(April)	4월 (April)
215	8	우 1	33.48	34.48
249	13	좌 3	33.83	34.33
250	10	우 1	33.61	34.26
261	11	좌 3	33.17	34.17
279	8	우 1	33.76	34.76
〃	11	좌 3	33.76	34.76
〃	下 5	우 1	33.51	34.51
290	9	〃	33.08	34.08
291	8	〃	32.73	33.37
304	下 2	〃	33.13	34.13
373	下 2	〃	33.37	33.87
436	8	〃	32.39	32.79
〃	10	좌 3	32.33	32.73
476	10	〃	33.34	33.54
485	下 14	〃	31.82	32.82
500	下 15	우 1	34.10	33.60
522	下 3		Soyphomedusae	Scyphomedusae

바른생활 바른질서

세계속의 문화국민